Adontify the novelty:

Additional Comments: Search compounds of Formula (I), (II) as presented in the amendment diled on 8 5 99.

VAR G1=CB/15/17/18/19/20
NODE ATTRIBUTES:
CONNECT IS M2 RC AT 17
CONNECT IS M2 RC AT 18
CONNECT IS M2 RC AT 19
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RSPEC 13 5 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE L9 27538 SEA FILE=REGISTRY SSS FUL L7

100.0% PROCESSED 657226 ITERATIONS SEARCH TIME: 00.00.19 27538 ANSWERS



VAR G1=CB/15/17/18/19/20
NODE ATTRIBUTES:
CONNECT IS M2 RC AT 17
CONNECT IS M2 RC AT 18
CONNECT IS M2 RC AT 19
DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 13 5

NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

L9 27538 SEA FILE=REGISTRY SSS FUL L7 L12 STR

VAR G1=0/S/21-3 22-15/22-3 21-15 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RSPEC 3 8

NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

1556 SEA FILE=REGISTRY SUB=L9 SSS FUL L12

100.0% PROCESSED 3027 ITERATIONS 1556 ANSWERS SEARCH TIME: 00.00.01

=> d que nos 132

L7 STR 1.9 27538 SEA FILE=REGISTRY SSS FUL L7 L12 STR 1556 SEA FILE=REGISTRY SUB=L9 SSS FUL L12 L14 L15 QUE SPE=ON ABB=ON PLU=ON MARTIN, R?/AU, AUTH L16 OUE SPE=ON ABB=ON PLU=ON MARTIN, D?/AU.AUTH QUE SPE=ON ABB=ON PLU=ON MOHAN, R?/AU.AUTH L17 L18 QUE SPE=ON ABB=ON PLU=ON ORDENTLICH, P?/AU, AUTH L21 99 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L14 L22 1883 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON L9 1.23 515 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L21 OR L22) (L)(THU OR PKT OR PAC OR DMA OR BAC)/RL L24 564 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L21 OR L22) AND PHARM?/SC,SX L25 178 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L21 OR L22) (L) (TREAT? OR THERAP? OR REMED? OR MEDIC? OR ?PHARM? OR BIOPHARM?)

=> d que stat 134 L7 STR



VAR G1=CB/15/17/18/19/20
NODE ATTRIBUTES:
CONNECT IS M2 RC AT 17
CONNECT IS M2 RC AT 18
CONNECT IS M2 RC AT 19
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RSPEC 13 5 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE L34 1954 SEA FILE=WPIX SSS FUL L7

100.0% PROCESSED 28803 ITERATIONS ( 1 INCOMPLETE) 1954 ANSWERS SEARCH TIME: 00.00.37

=> d que stat 138 L7 STR

VAR G1=CB/15/17/18/19/20
NODE ATTRIBUTES:
CONNECT IS M2 RC AT 17
CONNECT IS M2 RC AT 18
CONNECT IS M2 RC AT 19
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RSPEC 13 5 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

VAR G1=0/S/21-3 22-15/22-3 21-15 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RSPEC 3 8 NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE L34 1954 SEA FILE-WPIX SSS FUL L7 L38 116 SEA FILE-WPIX SUB-L34 SSS FUL L12

100.0% PROCESSED 195 ITERATIONS 116 ANSWERS

5

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=> d que nos 143
L7
L12
               STR
L15
               OUE SPE=ON ABB=ON PLU=ON MARTIN, R?/AU, AUTH
L16
               OUE SPE=ON ABB=ON PLU=ON MARTIN, D?/AU.AUTH
L17
               OUE SPE-ON ABB-ON PLU-ON MOHAN, R?/AU, AUTH
               OUE SPE=ON ABB=ON PLU=ON ORDENTLICH, P?/AU.AUTH
L18
L28
               OUE SPE=ON ABB=ON PLU=ON AY<2008 OR PY<2008 OR PRY<20
               08 OR MY<2008 OR REVIEW/DT
T. 3.4
          1954 SEA FILE-WPIX SSS FUL L7
1.38
           116 SEA FILE-WPIX SUB-L34 SSS FUL L12
L39
             18 SEA FILE-WPIX SPE=ON ABB=ON PLU=ON L38/DCR
L40
             1 SEA FILE-WPIX SPE=ON ABB=ON PLU=ON L39 AND (L15 OR L16 OR
               L17 OR L18)
L42
            17 SEA FILE-WPIX SPE-ON ABB-ON PLU-ON L39 NOT L40
            16 SEA FILE-WPIX SPE=ON ABB=ON PLU=ON L42 AND L28
L43
=> d his 148
     (FILE 'MEDLINE, BIOSIS, EMBASE, BIOTECHNO, CABA, AGRICOLA, DRUGU, VETU'
     ENTERED AT 09:31:14 ON 24 NOV 2009)
L48
             6 S L47 AND L28
=> d que nos 148
L9
         27538 SEA FILE=REGISTRY SSS FUL L7
1,15
               QUE SPE=ON ABB=ON PLU=ON MARTIN, R?/AU, AUTH
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L16
               QUE SPE=ON ABB=ON PLU=ON MOHAN, R?/AU, AUTH
L17
T.18
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L28
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L44
               BIOSIS OR EMBASE OR BIOTECHNO OR CABA OR AGRICOLA OR DRUGU OR
               VETU OR CROPU)/LC
L45
             6 SEA L44
L46
             0 SEA L45 AND (L15 OR L16 OR L17 OR L18)
L47
             6 SEA L45 NOT L46
1.48
             6 SEA L47 AND L28
=> dup rem 132 143 148
FILE 'HCAPLUS' ENTERED AT 09:37:45 ON 24 NOV 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE 'BIOSIS' ENTERED AT 09:37:45 ON 24 NOV 2009
Copyright (c) 2009 The Thomson Corporation
PROCESSING COMPLETED FOR L32
PROCESSING COMPLETED FOR L43
PROCESSING COMPLETED FOR L48
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L52 50 DUP REM L32 L43 L48 (10 DUPLICATES REMOVED)

ANSWERS '1-38' FROM FILE HCAPLUS ANSWERS '39-44' FROM FILE WPIX ANSWERS '45-50' FROM FILE BIOSIS

=> file stnguide

FILE 'STNGUIDE' ENTERED AT 09:37:59 ON 24 NOV 2009 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Nov 20, 2009 (20091120/UP). => d ibib ed abs hitind hitstr 1-20
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS, WPIX, BIOSIS' - CONTINUE? (Y)/N:v

L52 ANSWER 1 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2009:503321 HCAPLUS Full-text

DOCUMENT NUMBER: 150:547810

TITLE: Application of pyrimidinyl benzenepropanoic acid

compounds in preparation of medical formulations for

preventing and/or treating diabetes mellitus

INVENTOR(S): Shen, Jianhua; Leng, Ying; Jiang, Hualiang; Ye,

Yangliang

PATENT ASSIGNEE(S): Shanghai Institute of Materia Medica, Chinese Academy

of Sciences, Peop. Rep. China

SOURCE: Faming Zhuanli Shenging Gongkai Shuomingshu, 39pp.

CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese

LANGUAGE: Ch FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
CN 101411704	A	20090422	CN 2007-10047039	20071015 <			
PRIORITY APPLN. INFO.:			CN 2007-10047039	20071015 <			
OTHER SOURCE(S):	MARPAT	150:547810					

OTHER SOURCE(S):

ED Entered STN: 27 Apr 2009

GΙ

# \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

- AB The title compds. are represented by formula I, II, III (R1 = H or C1-C6 linear-chain or branched-chain alkyl; R2 = H, C1-C6 linear-chain or branched-chain alkyl, C1-C8 alkoxy, sulfhydryl, etc.; R3 = H, C1-C8 linear-chain or branched-chain alkyl, biphenylyl or substituted Ph or unsubstituted Ph, etc.; R4 = H, C1-C8 linear-chain or branched-chain alkyl, halogen, etc.; R5 = H, Ph, C1-C4 alkyl, C1-C4 alkoxy, etc.; R6 = H, C1-C4 alkoxy, halogen, etc.; R7 = substituted or unsubstituted benzyl or naphthyl methylene; R8 = H, C1-C8 linear-chain or branched-chain alkyl, halogen, C1-C4 halogenated alkyl, etc.). The inventive compds., as PPAR-γ agonist, can regulate gene transcription by activating RXR/FPAR heterodimer to effectively treat and/or prevent diabetes mellitus.
- CC 63-6 (Pharmaceuticals)
- Section cross-reference(s): 1
  IT 956223-03-3P 956223-04-4P 956223-05-5P 956223-06-6P 956223-07-7P
  956223-08-8P 956223-09-9P 956223-10-2P 956223-11-3P 956223-12-4P
  956223-13-5P 956223-14-6P 956223-15-7P 956223-16-8P 956223-17-9P
  956223-18-0P 1141923-74-4P 1141923-29-6P 1141923-32-1P
  1141923-42-3P 1141923-43-4P 1141923-44-5P 1141923-45-6P
  1141923-46-7P 1141923-48-3P 1141923-48-5P 1141923-49-0P
  1141923-58-8P 1141923-58-1P 1141923-69-4P 1141923-60-5P
  1141923-73-0P 1141923-75-2P 1141923-77-4P 1141923-71-8P
  1141923-81-0P 1141923-83-2P 1152304-16-9DP, derivs.

RL: PAC (Pharmacological activity); PRP (Properties); SPN

(Synthetic preparation); THU (Therapeutic use); BIOL (Biological

study); PREP (Preparation); USES (Uses)

(application of pyrimidinyl benzenepropanoic acid compds. in preparation of medical formulations for preventing and/or treating diabetes mellitus)

1141923-47-89 ΤТ

RL: PAC (Pharmacological activity); PRP (Properties); SPN

(Synthetic preparation); THU (Therapeutic use); BIOL (Biological

study); PREP (Preparation); USES (Uses)

(application of pyrimidinyl benzenepropanoic acid compds. in preparation of medical formulations for preventing and/or treating diabetes mellitus)

RN 1141923-47-8 HCAPLUS

CN Benzenepropanoic acid,  $\alpha$ -methyl- $\alpha$ -phenoxy-4-[[2-phenyl-6-[4-(phenylmethyl)-1-piperazinyl]-4-pyrimidinyl]oxy]- (CA INDEX NAME)

L52 ANSWER 2 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2008:90956 HCAPLUS Full-text

DOCUMENT NUMBER: 148:191949

TITLE: Preparation of pyrimidine derivatives and their use as pesticides

INVENTOR(S): Gauvry, Noeelle; Pautrat, Francois; Bouvier, Jacques; Fruechtel, Joerg; Bapst, Beatrice; Schorderet Weber,

Sandra

PATENT ASSIGNEE(S): Novartis AG, Switz.

PCT Int. Appl., 40pp. SOURCE: CODEN: PIXXD2

Patent

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE A1 20080124 WO 2007-EP57395 WO 2008009691 20070717 <--W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM AU 2007275179 A1 20080124 AU 2007-275179 20070717 <--

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CA 2657745
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                               20080124
                                           CA 2007-2657745
                                                                 20070717 <--
    EP 2091924
                         A1
                               20090826
                                          EP 2007-787660
                                                                 20070717 <--
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            IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR,
            AL, BA, HR, MK, RS
    IN 2008DN10574
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                               20090327
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                                                                  20081222 <--
    KR 2009029813
                               20090323
                                           KR 2009-701164
                                                                 20090120 <--
                         Α
    MX 2009000802
                               20090203
                                           MX 2009-802
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                         Α
    CN 101495462
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                               20090729
                                           CN 2007-80027769
                                                                 20090121 <--
PRIORITY APPLN. INFO.:
                                           EP 2006-117639
                                                              A 20060721 <--
                                           WO 2007-EP57395
                                                              W 20070717 <--
OTHER SOURCE(S):
                       CASREACT 148:191949; MARPAT 148:191949
   Entered STN: 24 Jan 2008
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X1 N N X2

GI

- AB The title compds. I [X1, X2 = halo; A = substituted Ph or (hetero)aryll, useful in the control of parasites, in particular ectoparasites, in and on warm-blooded animals, were prepared E.g., a 3-step synthesis of 2-(3-dimethylaminophenyll-4,6-bis-(4-fluoro-3-trifluoromethylphenoxy)pyrimidin-5-ylamine, starting from 4-fluoro-3-trifluoromethylphenol and 4,6-dichloro-5-aminopyrimidine, was given. Exemplified compds. I were tested for antiparasitic activity in various tests (data given).
- CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
  Section cross-reference(s): 1, 5, 63

ΙT	1003592-37-7P	1003592-38-8P	1003592-39-92	
	1003592-40-2P	1003592-41-3P	1003592-42-4P	
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	1003592-46-8P	1003592-47-92	1003592-48-0P	
	1003592-49-1P	1003592-50-4P	1003592-51-5P	
	1003592-52-6P	1003592-53-7P	1003592-54-8P	
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	1003592-58-2P	1003592-59-3P	1003592-60-6P	
	1003592-61-7P	1003592-62-8P	1003592-63-9P	
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	1003592-74-2P	1003592-75-3P	1003592-76-4P	1003592-77-5P
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	1003592-82-2P			

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PAC (Pharmacological activity); SPN (Synthetic preparation); TRU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted pyrimidinamines as pesticides)

1003592-40-2P	1003592-41-3P	1003592-42-4P
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1003592-46-82	1003592-47-9P	1003592-48-0P
1003592-49-12	1003592-50-4P	1003592-51-5P
1003592-52-6P	1003592-53-7P	1003592-54-8P
1003592-55-9P	1003592-56-0P	1003592-57-1P
1003592-58-2P	1003592-59-3P	1003592-60-6P
1003592-61-79	1003592-62-8P	1003592-63-9P
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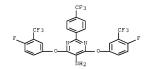
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted pyrimidinamines as pesticides)

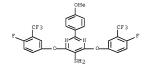
RN 1003592-37-7 HCAPLUS

CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 1003592-38-8 HCAPLUS

CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-(4-methoxyphenyl)- (CA INDEX NAME)



RN 1003592-39-9 HCAPLUS

CN 5-Pyrimidinamine, 2-(4-chlorophenyl)-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 1003592-40-2 HCAPLUS

CN 5-Pyrimidinamine, 2-(3-chlorophenyl)-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 1003592-41-3 HCAPLUS

CN 5-Pyrimidinamine, 2-(2-chlorophenyl)-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 1003592-42-4 HCAPLUS

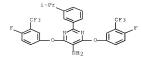
CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-(2-methoxyphenyl)- (CA INDEX NAME)

- RN 1003592-43-5 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-(3-methoxyphenyl)- (CA INDEX NAME)

- RN 1003592-44-6 HCAPLUS
- CN 5-Pyrimidinamine, 2-(3,5-dichlorophenyl)-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 1003592-45-7 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-(3methylphenyl)- (CA INDEX NAME)

- RN 1003592-46-8 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(1-methylethyl)phenyl]- (CA INDEX NAME)



RN 1003592-47-9 HCAPLUS

CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(methylthio)phenyl]- (CA INDEX NAME)

RN 1003592-48-0 HCAPLUS

CN 5-Pyrimidinamine, 2-(3,5-dimethoxyphenyl)-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 1003592-49-1 HCAPLUS

CN 5-Pyrimidinamine, 2-(3-fluoropheny1)-4,6-bis[4-fluoro-3-(trifluoromethy1)phenoxy]- (CA INDEX NAME)

- RN 1003592-50-4 HCAPLUS
- CN Ethanone, 1-[3-[5-amino-4,6-bis[4-fluoro-3-(trifluoromethy1)phenoxy]-2-pyrimidiny1]pheny1]- (CA INDEX NAME)

- RN 1003592-51-5 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 1003592-52-6 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(methylsulfinyl)phenyl]- (CA INDEX NAME)

- RN 1003592-53-7 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(methylsulfonyl)phenyl]- (CA INDEX NAME)

- RN 1003592-54-8 HCAPLUS
- CN Benzenemethanol, 3-[5-amino-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-pyrimidinyl]- $\alpha$ -methyl- (CA INDEX NAME)

- RN 1003592-55-9 HCAPLUS
- CN Acetamide, N-[3-[5-amino-4,6-bis[4-fluoro-3-(trifluoromethy1)phenoxy]-2pyrimidiny1]pheny1]- (CA INDEX NAME)

- RN 1003592-56-0 HCAPLUS
- CN Phenol, 3-[5-amino-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2pyrimidinyl]- (CA INDEX NAME)

RN 1003592-57-1 HCAPLUS

CN Methanesulfonamide, N-[3-[5-amino-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-pyrimidinyl]phenyl]- (CA INDEX NAME)

RN 1003592-58-2 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-difluorophenyl)-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

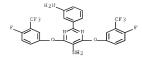
RN 1003592-59-3 HCAPLUS

CN 5-Pyrimidinamine, 2-(4-fluoro-3-methylphenyl)-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 1003592-60-6 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(2-methyl-1,3-dioxolan-2-yl)phenyl]- (CA INDEX NAME)

- RN 1003592-61-7 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2-fluoro-5-methoxyphenyl)-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 1003592-62-8 HCAPLUS
- CN 5-Pyrimidinamine, 2-(3-aminophenyl)-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)



RN 1003592-63-9 HCAPLUS

CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(methoxymethyl)phenyl]- (CA INDEX NAME)

RN 1003592-64-0 HCAPLUS

CN 5-Pyrimidinamine, 2-[3-[(dimethylamino)methyl]phenyl]-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 1003592-65-1 HCAPLUS

CN 5-Pyrimidinamine, 2-[3-(dimethylamino)-4-fluorophenyl]-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 1003592-66-2 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(4-morpholinyl)phenyl]- (CA INDEX NAME)

- RN 1003592-67-3 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(4-methyl-1-piperazinyl)phenyl]- (CA INDEX NAME)

- RN 1003592-68-4 HCAPLUS
- CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethy1)phenoxy]-2-[3-(1-piperidiny1)pheny1]- (CA INDEX NAME)

RN 1003592-69-5 HCAPLUS

CN 5-Pyrimidinamine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[3-(1-pyrrolidinyl)phenyl]- (CA INDEX NAME)

RN 1003592-70-8 HCAPLUS

CN 5-Pyrimidinamine, 2-[3-(dimethylamino)phenyl]-4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxyl- (CA INDEX NAME)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 3 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 2007:434909 HCAPLUS Full-text
DOCUMENT NUMBER: 146:441808

TITLE: Preparation of pyrimidine derivatives for the treatment of cancer

INVENTOR(S): McDonald, Edward; Large, Jonathan M.; Folkes, Adrian; Shuttleworth, Stephen J.; Wan, Nan Chi

PATENT ASSIGNEE(S): Ludwig Institute for Cancer Research, Switz.; Cancer

Research Technology Limited; Institute of Cancer Research Royal Cancer Hospital; Astellas Pharma Inc.; Piramed Limited PCT Int. Appl., 71pp.

SOURCE:

CODEN: PIXXD2 Patent

DOCUMENT TYPE: LANGUAGE:

English FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

PATENT NO.								APPLICATION NO.										
WO 2007042806			A1	1 20070419			1	70 20	006-0	GB37	76	20061011 <						
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,	
		KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	
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		RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	
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RITY	APP	LN.	INFO	. :						GB 20	005-	2065	7		A 2	0051	011 <	<
																	011 <	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 146:441808

ED Entered STN: 20 Apr 2007

GI

- The title compds. I [XR3 is bonded at ring position 2 and YR4 is bonded at AB ring position 5 or 6; R1 and R2 form, together with the N atom to which they are attached, an (un)substituted morpholine ring; X = a direct bond; R3 = substituted Ph, (un) substituted indazolyl; Y = O(CH2)n, NH(CH2)n, NHC(O)(CH2)n and C(O)NH(CH2)n (wherein n = 0-3); R4 = is selected from an (un)substituted unsatd. 5-12 membered carbocyclic or heterocyclic group and a group NR5R6 (wherein R5 and R6 = H, (un)substituted alkyl, cycloalkyl, etc.; or R5 and R6 together form, with the nitrogen atom to which they are attached, an (un)substituted saturated 5-7 membered N-containing heterocyclic group) | that are inhibitors of PI3K and may thus be used to treat diseases and disorders arising from abnormal cell growth, function or behavior associated with PI3 kinase such as cancer, immune disorders, cardiovascular disease, viral infection, inflammation, metabolism/endocrine function disorders and neurol. disorders, were prepared and formulated. Thus, coupling of II with 3hydroxyphenylboronic acid afforded 25% III. All of the compds. I tested had an IC50 of 50  $\mu\text{M}$  or less against PI3K. Typically the IC50 against PI3K was 5-500 nM.
- CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
- Section cross-reference(s): 1, 63 934690-84-3P 934690-85-4P 934690-86-5P ΙT 934690-87-6P 934690-88-72 934690-89-8P 934690-90-1P 934690-92-3P 934690-91-2P 934690-93-42 934690-94-5P 934690-95-6P 934690-97-8P 934690-96-7P 934690-98-9P 934690-99-0P 934691-00-6P 934691-01-7P 934691-02-8P 934691-03-9P 934691-04-0P 934691-05-1P 934691-06-2P 934691-07-39 934691-08-4P 934691-09-5P

934691-10-8P 934691-11-9P 934691-12-DP 934691-13-IP 934691-15-3P 934691-15-3P 934691-19-FP 934691-12-DP 93469

THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrimidinamines for treating cancer)
IT 934690-84-3P 934690-85-4P 934690-86-5P

934690-85-4P 934690-84-3P 934690-86-5P 934690-87-6P 934690-88-7P 934690-89-82 934690-90-1P 934690-91-29 934690-92-32 934690-93-4P 934690-94-5P 934690-95-6P 934691-04-0P 934691-03-9P 934691-07-3P 934691-08-4P 934691-06-2P 934691-09-5P 934691-10-8P 934691-11-9P 934691-12-02 934691-13-12 934691-14-22 934691-16-4P 934691-15-3P 934691-17-5P 934691-18-6P 934691-19-78

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of pyrimidinamines for treating cancer)

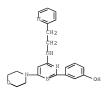
RN 934690-84-3 HCAPLUS

CN Phenol, 3-[4-(4-morpholinyl)-6-[(3-pyridinylmethyl)amino]-2-pyrimidinyl]-(CA INDEX NAME)

- RN 934690-85-4 HCAPLUS
- CN Phenol, 3-[4-(4-morpholinyl)-6-[(2-pyridinylmethyl)amino]-2-pyrimidinyl]-(CA INDEX NAME)

- RN 934690-86-5 HCAPLUS
- CN Phenol, 3-[4-(4-morpholiny1)-6-[(4-pyridinylmethyl)amino]-2-pyrimidiny1]-(CA INDEX NAME)

- RN 934690-87-6 HCAPLUS
- CN Phenol, 3-[4-(4-morpholiny1)-6-[[2-(2-pyridiny1)ethy1]amino]-2pyrimidiny1]- (CA INDEX NAME)

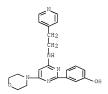


RN 934690-88-7 HCAPLUS

CN Phenol, 3-[4-(4-morpholiny1)-6-[[2-(3-pyridiny1)ethy1]amino]-2pyrimidiny1]- (CA INDEX NAME)

RN 934690-89-8 HCAPLUS

CN Phenol, 3-[4-(4-morpholinyl)-6-[[2-(4-pyridinyl)ethyl]amino]-2pyrimidinyl]- (CA INDEX NAME)



- RN 934690-90-1 HCAPLUS
- CN Phenol, 3-[4-(4-morpholiny1)-6-(2-pyridinylmethoxy)-2-pyrimidiny1]- (CA INDEX NAME)

- RN 934690-91-2 HCAPLUS
- CN Phenol, 3-[4-(4-morpholiny1)-6-[[2-(4-morpholiny1)ethy1]amino]-2pyrimidiny1]- (CA INDEX NAME)

- RN 934690-92-3 HCAPLUS
- CN Methanesulfonamide, N=[3-[4-(4-morpholiny1)-6-[[2-(2-pyridiny1)ethy1]amino]-2-pyrimidiny1]pheny1]- (CA INDEX NAME)

CN Methanesulfonamide, N-[3-[4-(4-morpholiny1)-6-[[2-(3-pyridiny1)ethy1]amino]-2-pyrimidiny1]pheny1]- (CA INDEX NAME)

- RN 934690-94-5 HCAPLUS
- CN Methanesulfonamide, N-[3-[4-(4-morpholiny1)-6-[[2-(4-pyridiny1)ethy1]amino]-2-pyrimidiny1]pheny1]- (CA INDEX NAME)

- RN 934690-95-6 HCAPLUS
- CN Methanesulfonamide, N-[3-[4-(4-morpholinyl)-6-(2-pyridinylmethoxy)-2pyrimidinyl]phenyl]- (CA INDEX NAME)

- RN 934691-03-9 HCAPLUS
- CN Phenol, 3-[4-(4-morpholinyl)-6-[(phenylmethyl)amino]-2-pyrimidinyl]- (CA INDEX NAME)

- RN 934691-04-0 HCAPLUS
- CN Phenol, 3-[4-(4-morpholinyl)-6-(phenylamino)-2-pyrimidinyl]- (CA INDEX NAME)

- RN 934691-05-1 HCAPLUS
- CN Phenol, 3-[4-[(4-methylphenyl)amino]-6-(4-morpholinyl)-2-pyrimidinyl]-(CA INDEX NAME)

- RN 934691-06-2 HCAPLUS

RN 934691-07-3 HCAPLUS

CN Phenol, 3-[4-[(3-fluoropheny1)amino]-6-(4-morpholiny1)-2-pyrimidiny1]-(CA INDEX NAME)

RN 934691-08-4 HCAPLUS

CN Phenol, 3-[4-[(4-fluorophenyl)amino]-6-(4-morpholinyl)-2-pyrimidinyl]-(CA INDEX NAME)

RN 934691-09-5 HCAPLUS

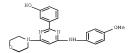
CN Phenol, 3-[4-[(2-methylphenyl)amino]-6-(4-morpholinyl)-2-pyrimidinyl]-(CA INDEX NAME)

- RN 934691-10-8 HCAPLUS
- CN Phenol, 3-[4-[(2-fluoropheny1)amino]-6-(4-morpholiny1)-2-pyrimidiny1](CA INDEX NAME)

- RN 934691-11-9 HCAPLUS
- CN Phenol, 3-[4-[(2-methoxyphenyl)amino]-6-(4-morpholinyl)-2-pyrimidinyl]-(CA INDEX NAME)

- RN 934691-12-0 HCAPLUS
- CN Phenol, 3-[4-[(3-methoxyphenyl)amino]-6-(4-morpholinyl)-2-pyrimidinyl]-(CA INDEX NAME)

- RN 934691-13-1 HCAPLUS
- CN Phenol, 3-[4-[(4-methoxyphenyl)amino]-6-(4-morpholinyl)-2-pyrimidinyl](CA INDEX NAME)



RN 934691-14-2 HCAPLUS

CN Benzonitrile, 3-[[2-(3-hydroxyphenyl)-6-(4-morpholinyl)-4pyrimidinyl]amino]- (CA INDEX NAME)

RN 934691-15-3 HCAPLUS

CN Benzonitrile, 4-[[2-(3-hydroxyphenyl)-6-(4-morpholinyl)-4pyrimidinyl]amino]- (CA INDEX NAME)

RN 934691-16-4 HCAPLUS

CN Phenol, 3-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)amino]-6-(4-morpholinyl)-2pyrimidinyl]- (CA INDEX NAME)

- RN 934691-17-5 HCAPLUS
- CN Phenol, 3-[4-(4-morpholinyl)-6-[[1,2,3,4-tetrahydro-2-(methylsulfonyl)-7isoquinolinyl]amino]-2-pyrimidinyl]- (CA INDEX NAME)

- RN 934691-18-6 HCAPLUS
- CN Phenol, 3-[4-[[3-(methylsulfonyl)phenyl]amino]-6-(4-morpholinyl)-2pyrimidinyl]- (CA INDEX NAME)

- RN 934691-19-7 HCAPLUS
- CN Phenol, 3-[4-(4-morpholinyl)-6-phenoxy-2-pyrimidinyl]- (CA INDEX NAME)

- OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
- REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L52 ANSWER 4 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 4
- ACCESSION NUMBER: 2006:1159256 HCAPLUS Full-text
- DOCUMENT NUMBER: 145:471852
- TITLE: Preparation of N-(4-pyrimidinylcarbonyl) amino acid
  - piperazides and their use as P2Y12 receptor antagonists
- INVENTOR(S): Caroff, Eva; Fretz, Heinz; Hilpert, Kurt; Houille,

 $\mbox{Olivier; Hubler, Francis; Meyer, Emmanuel} \\ \mbox{PATENT ASSIGNEE(S):} & \mbox{Actelion Pharmaceuticals Ltd, Switz.} \\ \mbox{} \end{array}$ 

SOURCE: PCT Int. Appl., 381pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PA:	KIND DATE																	
										WO 2006-IB51318						20060427 <		
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): CASREACT 145:471852; MARPAT 145:471852

ED Entered STN: 03 Nov 2006

GI

AB The invention relates to the preparation of title compds. I IR1 = (un) substituted Ph; W = a bond and R2 = CN, halo/alkoxy/heterocycly1/cyclo/cycloalky1/alky1, hetero/ary/, heterocycly1, (partially) saturated heterocyclyl; (un)substituted hydroxyalkyl; W = CH2 and R2 = NR7R8, SR9, SO2R10; W = O, S, and R2 =alkoxycarbonyl/carboxy/hydroxy/alkoxy/heterocyclyl/cyclo/ar/heteroaryl/alk yl, hetero/aryl; W = NH and derivs. and R2 = H, dialkylamino/alkoxycarbonyl/hydroxy/alkoxy/cyclo/heterocyclyl/cycloalkyl/a r/diphenyl/heteroaryl/alkyl, aryl, 2-phenylcyclopropyl, COR11, SO2R12, (un) substituted carboxyalkyl; W = CH:CH and R2 = hydroxy/alkoxy/alkyl alkoxycarbonyl, Ph, or CONR13R14; ; or W = C.tplbond.C and R2 = H, hydroxy/alkoxy/alkyl; or W = CO and R2 = alkyl; W = NR3 and NR2R3 = 4-7 membered heterocyclyl; or W = NR3 and NR2R3 = (un)substituted imidazoyl, pyrazolyl, 1,2,3-triazolyl, etc.; R5a, R5b = independently H, Me; R3 = H, alkyl; R7 aryl/alkyl; or NR7R8 = (un)substituted 4-7 membered heterocyclyl; R9 = cycloalkyl, aryl; R10 = cyclo/alkyl, aryl; R11 = alkoxy/alkyl, hetero/aryl, etc.; R12 = alkvl, arvl; R13, R14 = independently alkvl; X = CO and R6 = cyclo/alkyl, alk(ynyl)oxy, aryloxy, aralkoxy, hetero/aryl, aralkyl or NH2 and derivs.; or X = SO2 and R6 = alkvl; Y = a bond and Z = H, arvl substituted by carboxyalkoxy; or Y = alkoxy/Ph/alkoxyphenyl/alkylene, alkoxyphenylene and Z = H, OH, NH2, CO2H, tetrazolyl, CONH2, COOR17, NHCOR17, NHSO2R17; R17 = alkyl], as P2Y12 receptor antagonists. The invention also relates to the use of pyrimidines I and their stereoisomers, salts, solvent complexes and morphol. forms, in the treatment and/or prevention of peripheral vascular, visceral-, hepatic- and renal-vascular, of cardiovascular and of cerebrovascular diseases (no data) or conditions associated with platelet aggregation (no data), particularly thrombosis (no data). Thus, a multi-step synthesis starting from Z-L-Glu(Ot-Bu)-OH (Z = benzyloxycarbonyl) and 1-ethoxycarbonylpiperazine was given for amino acid piperazide II. In a P2Y12 binding assay, II had an IC50 = 117 nM.

IC ICM A61K

CC 34-2 (Amino Acids, Peptides, and Proteins) Section cross-reference(s): 1, 28, 63

913946-66-4P 913946-67-5P 913946-68-6P. 4-[(S)-5-Carboxy-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4yl)carbonyl]amino]pentanoyl]piperazine-1-carboxylic acid ethyl ester

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913946-71-1P 913946-72-2P,
4-[(S)-4-Carbamoyl-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
vl)carbonvllaminolbutanovllpiperazine-1-carboxvlic acid ethvl ester
913946-73-32
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4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-
hydroxybutanovl]piperazine-1-carboxylic acid ethyl ester
               913947-34-9P
                              913948-20-6P.
913947-30-5P
4-[(S)-4-tert-Butoxycarbony1-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1lamino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
               913948-22-89,
4-[(S)-5-tert-Butoxycarbony1-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonvllaminolpentanovllpiperazine-1-carboxvlic acid ethyl ester
913948-23-9P, 4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]-4-[(ethoxycarbonyl)methoxy]butanoyl]piperazine-1-
                             913948-24-0P
carboxylic acid ethyl ester
913948-25-1P
              913948-26-2P.
4-[(S)-4-tert-Butoxycarbony1-2-[[(6-carboxymethoxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-27-3F, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-
propoxypyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913948-28-49,
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4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-hydroxyethoxy)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethyl ester
913948-29-5P, 4-[(S)-2-[[[6-[(Benzyl)oxy]-2-phenylpyrimidin-4-
vl]carbonyl]amino]-4-tert-butoxycarbonylbutanoyl]piperazine-1-carboxylic
                  913948-30-8P,
acid ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(cyclopropylmethoxy)-2-phenylpyrimidin-
4-vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913948~31~9F, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclohexyloxy-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
ethyl ester
             913948-32-0P.
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-isopropoxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-33-1P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-methoxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913948-34-2P,
4-[2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-3-[3-
[(ethoxycarbonyl)methoxy]phenyl]propionyl]piperazine-1-carboxylic acid
ethvl ester
              913948-35-39,
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[(ethoxycarbonyl)methoxy]phenyl]propionyl]piperazine-1-carboxylic acid
             913948-36-49,
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[(ethoxycarbonyl)methoxy]phenyl]ethanoyl]piperazine-1-carboxylic acid
ethvl ester
             913948-37-5P.
4-[(S)-4-tert-Butoxycarbonv1-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid prop-2-ynyl ester
913948-38-6P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-
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butvl ester
             913948-39-79,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid isobutyl ester
913948-40-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
2,2-dimethylpropyl ester
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4-[(S)-4-tert-Butoxycarbony1-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid isopropv1 ester

4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid phenyl ester

913948-43-3P,

913948-42-2P

35

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913948-44-4P
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4-[(S)-4-tert-Butoxycarbony1-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
vl)carbonvl]amino|butanovl|piperazine-1-carboxvlic acid benzvl ester
913948-46-6P
             913948-47-79,
(5)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-5-oxo-5-
[4-[(propan-1-v1)sulfonv1]piperazin-1-v1]pentanoic acid tert-butyl ester
               913948-49-9P
                              913948-50-2P
913948-48-8P
913948-51-3F, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-methylamino-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
              913948-52-49,
ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-propylaminopyrimidin-4-
vl)carbonvllamino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913948-53-5P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-isopropylamino-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913948-54-6P,
ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-butylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-55-7P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-isobutylamino-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
ethyl ester
             913948-56-8P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopropylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-57-9P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentylamino-
2-phenylpyrimidin-4-yl)carbonyl[amino]butanoyl[piperazine-1-carboxylic
                  913948-58-0P,
acid ethvl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclohexylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-59-1P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-
[[(ethoxycarbonyl)methyl]amino]-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913948-60-4P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-[(2-
hydroxyethyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-61-5P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-[(2-
ethoxycarbonylethyl)amino|-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-62-6P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(3-
hydroxypropyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-63-7P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(3-tert-
butoxycarbonylpropyl)aminol-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-64-8P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(2-
dimethylaminoethyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-65-9P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(3-
dimethylaminopropyl)amino]-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913948-66-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[[2-(morpholin-4-
v1)ethv1|amino|-2-phenvlpvrimidin-4-v1|carbonv1|amino|butanov1|piperazine-
1-carboxylic acid ethyl ester
                               913948-67-1P.
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[[3-(morpholin-4-yl)propyl]amino]-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
              913948-68-2P,
ethvl ester
4-[(S)-2-[[[6-[(Benzyl)amino]-2-phenylpyrimidin-4-yl]carbonyl]amino]-4-
tert-butoxycarbonylbutanoyl]piperazine-1-carboxylic acid ethyl ester
913948-69-3P
              913948-70-6P
                              913948-71-7P
913948-72-89
              913948-73-9P.
4-((S)-4-tert-Butoxycarbonyl-2-((6-phenethylamino-2-phenylpyrimidin-4-
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yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester

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913948-74-0P
              913948-75-1P
                              913948-76-29
913948-77-32
              913948-78-4P
                              913948-79-5P.
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(indan-2-yl)amino]-2-phenylpyrimidin-
4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-80-8P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-dimethylamino-2-
phenylpyrimidin-4-v1)carbonyl]amino|butanoyl]piperazine-1-carboxylic acid
ethyl ester
             913948-81-9P.
4-[(S)-2-[[[6-(Azetidin-1-v1)-2-phenylpyrimidin-4-v1]carbonyl]amino]-4-
tert-butoxycarbonylbutanovllpiperazine-1-carboxylic acid ethyl ester
933948-82-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-
(pyrrolidin-1-yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
                             913948-83-1P,
carboxvlic acid ethvl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(piperidin-1-yl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-84-2P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-
[(butyl)(methyl)amino]-2-phenylpvrimidin-4-
v1|carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913948-85-3P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-
phenylaminopyrimidin-4-v1)carbonyl|amino|butanoyl|piperazine-1-carboxylic
acid ethyl ester
                  913948-86-4P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(4-fluorophenyl)amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913948-87-5P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-methyl-2-phenylpyrimidin-4-
v1)carbonv1laminolbutanov1lpiperazine-1-carboxvlic acid ethvl ester
913948-88-6P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-isopropyl-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913948-89-79,
ethvl ester
4-[4-tert-Butoxycarbonyl-2-[[(6-butyl-2-phenylpyrimidin-4-
v1)carbonv1|amino|butvrv1|piperazine-1-carboxv1ic acid ethv1 ester
913948-90-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-isobutyl-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
ethyl ester 913948-91-1P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopropyl-2-phenylpyrimidin-4-
vl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-92-2P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyl-2-
phenylpyrimidin-4-vl)carbonyllamino|butanovl]piperazine-1-carboxylic acid
             913948-93-3P.
ethvl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[(2,6-diphenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-94-4P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(o-
tolyl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913948-95-5P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(m-tolyl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-96-6P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(p-
tolyl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913948-97-79,
ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(3-carboxyphenyl)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913948-98-8P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4-
carboxyphenyl)-2-phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
                             913948-99-9P,
carboxylic acid ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-(4-fluorophenyl)-6-methylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-00-5P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[2-(3-fluoropheny1)-
6-methylpyrimidin-4-v1|carbonyl|amino|butanoyl|piperazine-1-carboxylic
acid ethyl ester 913949-01-6P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-(2-fluorophenyl)-6-methylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
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913949-02-7P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[2-(4-chloropheny1)-
6-methylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic
acid ethyl ester
                   913949-03-8P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-(3-chlorophenyl)-6-methylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-04-9P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[2-(2-chloropheny1)-
6-methylpyrimidin-4-y1]carbony1]amino]butanoy1]piperazine-1-carboxy1ic
acid ethyl ester
                  913949-05-0P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-methyl-2-(p-tolyl)pyrimidin-4-
vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913949-06-19, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-methy1-2-(m-
tolyl)pyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
             913949-07-2P,
ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-(4-methoxyphenyl)-6-methylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-08-3P, 4-((S)-4-tert-Butoxycarbonyl-2-(([2-(3-
methoxyphenyl)-6-methylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-
                             913949--09-42
carboxylic acid ethyl ester
                             913949-12-9P
913949-10-79
             913949-11-89
913949-13-0P, 4-[(S)-5-tert-Butoxycarbonyl-2-[[(6-isopropylamino-2-
phenylpyrimidin-4-yl)carbonyl]amino]pentanoyl]piperazine-1-carboxylic acid
ethyl ester 913949-14-1P,
4-[(S)-2-[[[6-[(Benzyl)amino]-2-phenylpyrimidin-4-yl]carbonyl]amino]-5-
tert-butoxycarbonylpentanoyl]piperazine-1-carboxylic acid ethyl ester
913949-15-2P, 4-[(S)-5-tert-Butoxycarbonyl-2-[[(2,6-
diphenylpyrimidin-4-yl)carbonyl]amino]pentanoyl]piperazine-1-carboxylic
acid ethvl ester
                  913949-16-32,
4-[(S)-5-tert-Butoxycarbonyl-2-[[(6-cyclopropyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]pentanoyl]piperazine-1-carboxylic acid ethyl ester
913949-66-3P
              913949-67-42
                             913949-68-5P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(isopropyl)(methyl)amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913949-69-6P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(morpholin-4-yl)-2-phenylpyrimidin-4-
vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-70-9P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-
(thiazolidin-3-vl)pyrimidin-4-vl]carbonvl]amino|butanovl]piperazine-1-
                             913949-71-0P.
carboxylic acid ethyl ester
4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(4-hydroxypiperidin-1-v1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
              913949-72-19,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(piperazin-1-yl)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethyl ester
913949-73-2P
              913949-74-32,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(4-hydroxybutyl)amino]-2-
phenylpyrimidin-4-vl]carbonyl]amino]butanovl]piperazine-1-carboxylic acid
ethvl ester
             913949-75-4P 913949-76-5P
                             913949-79-8P
913949-77-6P
               913949-78-7P
913949-80-1P
               913949-81-29
                              913949-82-3P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(imidazol-1-v1)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-83-4P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-
(pyrazol-1-yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
                             913949-84-5P
carboxvlic acid ethvl ester
               913949-86-79,
4-[(S)-4-tert-Butoxycarbony1-2-[[[6-[(2-hydroxy-1,1-dimethylethyl)amino]-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethvl ester
              913949-87-82
                            913949-88-92
913949-89-0P
               913949-90-3P,
4-[(S)-4-tert-Butoxycarbony1-2-[[(2-pheny1-6-propy1sulfany1pyrimidin-4-
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vl)carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
     913949-91-4P, 4-[(S)-4-tert-Butoxycarbony1-2-[[(6-
     isopropvlsulfanvl-2-phenvlpvrimidin-4-
     yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
     913949-92-5P, 4-[(S)-4-tert-Butoxycarbony1-2-[[(6-
     cyclopentylsulfanyl-2-phenylpyrimidin-4-
     yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
     913949-93-6P
                   913949-94-7P,
     4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclohexylsulfanyl-2-phenylpyrimidin-4-
     yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
     913949-95-8P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-
     [[(ethoxycarbonyl)methyl]sulfanyl]-2-phenylpyrimidin-4-
     vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
     913949-96-99, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-[(2-
     ethoxycarbonylethyl)sulfanyl]-2-phenylpyrimidin-4-
     yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
     913949-97-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-
     phenylsulfanylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-
     carboxylic acid ethyl ester 913949-98-1P,
     4-[(S)-2-[[(6-Benzylsulfanyl-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-tert-
     butoxycarbonylbutanoyl]piperazine-1-carboxylic acid ethyl ester
     913949-99-2P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-ethynyl-2-
     phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
     ethyl ester
                   913950-00-22,
     4-(S)-4-tert-Butoxycarbonyl-2-([6-(3-hydroxyprop-1-ynyl)-2-
     phenylpyrimidin-4-vl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
     ethvl ester
                   913950-01-3P
                                  913950-02-42
     913950-03-5
F, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(3-hydroxy-3-methy1-1-butyny1)-2-
     phenylpyrimidin-4-vl]carbonyl]amino|butanovl]piperazine-1-carboxylic acid
     ethyl ester 913950-04-6P,
     4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(3-hydroxypropyl)-2-phenylpyrimidin-4-
     vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
     913950-05-7P
                    913950-06-82
                                   913950-07-92,
     4-[(S)-4-\text{tert-Butoxycarbonyl}-2-[[[6-(3-\text{hydroxy}-3-\text{methylbutyl})-2-
     phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
     ethyl ester
                   913950-08-0P,
     4-[(S)-4-Carboxy-2-[[[6-(4-oxocyclohex-1-enyl)-2-phenylpyrimidin-4-
     vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
     913950-09-1P, 4-[(S)-4-Carboxy-2-[[[6-(4-oxocyclohexyl)-2-
     phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
     ethyl ester 913950-11-5P,
     4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4-oxocyclohex-1-enyl)-2-
     phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
     ethvl ester
                   913950-12-62,
     4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4-oxocyclohexyl)-2-phenylpyrimidin-4-
     vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethyl ester
                    913951-48-1P
     913951-47-0P
                                   913951-49-29,
     4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4-methoxypiperidin-1-yl)-2-
     phenylpyrimidin-4-vl]carbonyl]amino]butanovl]piperazine-1-carboxylic acid
     ethvl ester
                   913951-50-5P
                                  913951-51-6P
     913951-52-7P
                    913951-53-8P
                                   913951-54-92
     913951-55-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(2-methoxy-1,1-
     dimethylethyl)amino]-2-phenylpyrimidin-4-
     yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
     913951-56-1P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(4,5-
     dihydropyrazol-1-v1)-2-phenylpyrimidin-4-
     yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
     913951-57-2P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(2-methy1-4,5-
     dihydroimidazol-1-yl)-2-phenylpyrimidin-4-
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vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913951-58-3P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[2-pheny1-6-
([1,2,4]triazol-1-vl)pvrimidin-4-vl]carbonvl]amino|butanovl]piperazine-1-
carboxylic acid ethyl ester
                            913951-59-4P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4-methylpyrazol-1-yl)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester
              913951-60-7P.
4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(3-methylpyrazol-1-v1)-2-
phenylpyrimidin-4-vl[carbonyl]amino|butanoyl]piperazine-1-carboxylic acid
             913951-61-89,
ethyl ester
4-[(S)-2-[[[6-(4-Butyl-[1,2,3]triazol-1-yl)-2-phenylpyrimidin-4-
vllcarbonvllaminol-4-tert-butoxycarbonvlbutanovllpiperazine-1-carboxylic
                   913951-62-99,
acid ethyl ester
4-[(S)-2-[[(6-Amino-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-tert-
butoxycarbonylbutanovl]piperazine-1-carboxylic acid ethyl ester
              913951-64-1P.
4-[(S)-4-tert-Butoxvcarbonv1-2-[[[6-[(ethv1sulfonv1)methv1]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913951-65-2P 913951-66-3P
913951-67-4P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-
[(cyclopentylsulfanyl)methyl]-2-phenylpyrimidin-4-
yl]carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-68-5P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-
[(cyclopentylsulfonyl)methyl]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-69-6P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-
(pyridin-3-y1)pyrimidin-4-y1]carbony1]amino]butanoy1]piperazine-1-
                             913951-70-92,
carboxylic acid ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(pyridin-4-yl)pyrimidin-4-
vllcarbonvllamino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913951-71-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-
(thiazol-2-yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
carboxylic acid ethyl ester 913951-72-1P,
4-[(S)-2-[[(6-Acetyl-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-tert-
butoxycarbonylbutanoyl]piperazine-1-carboxylic acid ethyl ester
913951-73-2P
                             913951-75-4P
              913951-74-3P
913951-76-5P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(1-hydroxy-1-
methylethyl)-2-phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
carboxylic acid ethyl ester
                             913951-77-69,
4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(2-hydroxyethy1)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovl|piperazine-1-carboxvlic acid ethyl ester
913951-78-7P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-methoxyethyl)-
2-phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic
acid ethyl ester
                  913951-79-8P
                                  913951-80-19
              913951-82-3P
                             913951-83-42
913951-81-29
913951-84-5P
              913951-85-6P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(tetrahydropyran-4-
vl)pvrimidin-4-vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid
ethyl ester
             913951-86-79
                            913951-87-8P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(1-oxopyridin-3-y1)-2-phenylpyrimidin-
4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-88-9P
              913951-89-0P
                             913951-90-32
913951-91-4P
               913951-92-5P
                              913951-93-6P
913951-94-7P
               913951-95-8P
                             913951-96-9P
913951-97-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-
trifluoromethylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-
carboxylic acid ethyl ester 913951-98-1P,
4-[(S)-2-[[(6-tert-Butyl-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-(tert-
butvloxycarbonvl)butanovl|piperazine-1-carboxylic acid ethyl ester
913951-99-2P, 4-[(S)-4-tert-Butoxycarbony1-2-[[(6-phenoxy-2-
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phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
            913952-03-1P.
4-((S)-4-tert-Butoxycarbonyl-2-(([6-(1-oxopyridin-2-v1)-2-phenylpyrimidin-
4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913952-04-2P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(1-oxopyridin-4-
v1)-2-phenylpyrimidin-4-y1|carbony1|amino|butanoy1|piperazine-1-carboxylic
                  913952-05-3P.
acid ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-hydroxy-1,1-dimethylethyl)-2-
phenylpyrimidin-4-vl[carbonyl]amino|butanoyl]piperazine-1-carboxylic acid
             913967-11-09
ethyl ester
RL: PAC (Pharmacological activity); RCT (Reactant); SPN
(Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
   (drug candidate; preparation of N-(4-pyrimidinylcarbonyl) amino acid
   piperazides and their use as P2Y12 receptor antagonists)
913946-69-7P, 4-12-11(6-Cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1|amino|acetv1|piperazine-1-carboxv1ic acid ethv1 ester
913946-70-0P, 4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1|amino|-3-methylbutanov1|piperazine-1-carboxvlic acid ethyl
       913946-74-4P, 4-[(S)-6-Amino-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-y1)carbonyl]amino]hexanoyl]piperazine-1-carboxylic acid
ethyl ester 913946-75-5P
                             913946-77-79,
4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-y1)carbonyl]amino]-5-
hydroxypentanovl]piperazine-1-carboxylic acid ethyl ester
913946-78-8P, 4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1|amino|-6-hvdroxvhexanov1|piperazine-1-carboxv1ic acid ethv1
ester
        913946-79-99
                      913946-80-2P
913946-81-3P
              913946-82-4P,
4-[(S)-4-(Carboxymethoxy)-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913946-83-5P
             913946-84-69,
4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-(1H-
tetrazol-5-yl)butanoyl]piperazine-1-carboxylic acid ethyl ester
              913946-86-82
                             913946-87-92
913946-88-0P, 4-[(S)-4-Carboxy-2-[[(6-carboxymethoxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
             913946-89-1P,
4-[(S)-4-Carboxy-2-[[(2-phenyl-6-propoxypyrimidin-4-
vl)carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913946-90-4P, 4-[(S)-4-Carboxy-2-[[[6-(2-hydroxyethoxy)-2-
phenylpyrimidin-4-vl|carbonyl|amino|butanovl|piperazine-1-carboxylic acid
ethyl ester 913946-91-5P.
4-[(S)-2-[[(6-[(Benzyl)oxy]-2-phenylpyrimidin-4-yl]carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913946-92-6P, 4-[(S)-4-Carboxy-2-[[[6-(cyclopropylmethoxy)-2-
phenylpyrimidin-4-vl|carbonyl|amino|butanovl|piperazine-1-carboxylic acid
ethyl ester 913946-93-7P.
4-[(S)-4-Carboxy-2-[[(6-cyclohexyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913946-94-8P, 4-[(S)-4-Carboxy-2-[[(6-isopropoxy-2-phenylpyrimidin-
4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913946-95-9P, 4-[(S)-4-Carboxy-2-[[(6-methoxy-2-phenylpyrimidin-4-
yl)carbonyl|amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913946-96-0P, 4-[3-(3-Carboxymethoxyphenyl)-2-[[(6-cyclopentyloxy-
2-phenylpyrimidin-4-yl)carbonyl]amino]propionyl]piperazine-1-carboxylic
                  913946-97-1P,
acid ethyl ester
4-[3-(2-Carboxymethoxyphenyl)-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]propionyl]piperazine-1-carboxylic acid ethyl ester
913946-98-2P, 4-[(S)-2-(4-Carboxymethoxyphenyl)-2-[[(6-
cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]ethanoyl]piperazine-1-
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ΙT

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carboxvlic acid ethvl ester
                              913946-99-39,
4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
vl)carbonvllamino|butanovl|piperazine-1-carboxvlic acid prop-2-vnvl ester
913947-00-9P, 4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
            913947-01-0P,
butyl ester
4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid isobutv1 ester
913947~02~1F, 4-I(S)-4-Carboxy-2-II(6-cyclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
2,2-dimethylpropyl ester
                          913947-03-2P.
4-[(S)-4-Carboxy-2-[](6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid isopropyl ester
913947-04-3P, (S)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
v1) carbonyl | amino | -5- | 4- | (furan-2-y1) carbonyl | piperazin-1-y1 | -5-
oxopentanoic acid 913947-05-4P.
4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid phenyl ester
913947-06-5P, (S)-5-(4-Benzoylpiperazin-1-yl)-4-[[(6-
cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-5-oxopentanoic acid
913947-07-6P, 4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
benzvl ester
              913947-08-72,
(S)-5-(4-Butyrylpiperazin-1-yl)-4-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
                                        913947-09-89,
vl)carbonvllaminol-5-oxopentanoic acid
(S)-4-[[(6-Cvclopentvloxy-2-phenvlpvrimidin-4-vl)carbonvl]amino]-5-oxo-5-
[4-[(propan-1-yl)sulfonyl]piperazin-1-yl]pentanoic acid
913947-10-1P
              913947-11-2P 913947-12-3P
913947-13-4P, 4-[(S)-4-Carboxy-2-[[(6-methylamino-2-
phenylpyrimidin-4-vl)carbonyllamino|butanovl|piperazine-1-carboxylic acid
ethyl ester 913947-14-5P 913947-15-6P,
4-[(S)-4-Carboxy-2-[[(2-phenyl-6-propylaminopyrimidin-4-
yl)carbonyl]amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913947-16-7P
              913947-17-8P.
4-[(S)-4-Carboxy-2-[[(6-isopropylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-18-9P
              913947-19-0P,
4-[(S)-2-[[(6-Butylamino-2-phenylpyrimidin-4-y1)carbonyl]amino]-4-
carboxybutanovl|piperazine-1-carboxylic acid ethyl ester
913947-20-3P
               913947-21-4P,
4-[(S)-4-Carboxy-2-[[(6-isobutylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-22-52
              913947-23-6P,
4-[(S)-4-Carboxy-2-[[(6-cyclopropylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-24-7P 913947-25-8P,
4-[(S)-4-Carboxy-2-[[(6-cyclopentylamino-2-phenylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913947-26-99
              913947-27-09,
4-[(S)-4-Carboxy-2-[[(6-cyclohexylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-28-1P
               913947-29-2P,
4-[(S)-4-Carboxy-2-[[[6-[[(ethoxycarbonyl)methyl]amino]-2-phenylpyrimidin-
4-vllcarbonvllamino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913947-31-6P
               913947-32-72
                              913947-33-82,
4-[(S)-4-Carboxy-2-[[[6-[(2-ethoxycarbonylethyl)amino]-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethyl ester
              913947-36-1P 913947-37-2P.
4-[(S)-4-Carboxy-2-[[[6-[(3-carboxypropyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
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913947-38-3P 913947-39-4P,
4-[(S)-4-Carboxy-2-[[[6-[(2-dimethylaminoethyl)amino]-2-phenylpyrimidin-4-
vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913947-40-7P 913947-41-8P,
4-[(S)-4-Carboxy-2-[[[6-[(3-dimethylaminopropyl)amino]-2-phenylpyrimidin-4-
v1|carbony1|amino|butanoy1|piperazine-1-carboxylic acid ethy1 ester
              913947-43-0P.
913947-42-99
4-[(S)-4-Carboxy-2-[[[6-[[2-(morpholin-4-v1)ethy1]amino]-2-phenylpyrimidin-
4-vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethyl ester
               913947-45-29.
4-[(S)-4-Carboxy-2-[[[6-[[3-(morpholin-4-yl)propyl]amino]-2-
phenylpyrimidin-4-yllcarbonyllaminolbutanoyllpiperazine-1-carboxylic acid
                             913947-47-49,
ethyl ester
              913947-46-3P
4-[(S)-2-[[[6-[(Benzyl)amino]-2-phenylpyrimidin-4-yl]carbonyl]amino]-4-
carboxybutanovl]piperazine-1-carboxylic acid ethyl ester
              913947-49-6P
913947-48-5P
                              913947-50-92
913947-51-0P
               913947-52-1P
                              913947-53-22
913947-54-3P
              913947-55-49,
4-[(S)-4-Carboxy-2-[[(6-phenethylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-56-5P
              913947-57-6P
                              913947-58-79
913947-59-82
               913947-60-1P
                              913947-61-29
               913947-63-4P
                              913947-64-59
913947-62-3P
913947-65-6P, 4-[(S)-4-Carboxy-2-[[[6-[(indan-2-y1)amino]-2-
phenylpyrimidin-4-vl]carbonyl]amino]butanovl]piperazine-1-carboxylic acid
                             913947-67-8P,
              913947-66-7P
ethyl ester
4-[(S)-4-Carboxy-2-[[(6-dimethylamino-2-phenylpyrimidin-4-
v1)carbonv1]amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913947-68-92
              913947-69-09.
4-[(S)-2-[[[6-(Azetidin-1-v1)-2-phenvlpvrimidin-4-v1]carbonvl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913947-70-3P
              913947-71-4P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(pyrrolidin-1-yl)pyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913947-72-5P
              913947-73-62,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(piperidin-1-yl)pyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
              913947-75-8P.
913947-74-79
4-[(S)-2-[[[6-[(Butyl) (methyl) amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]-4-carboxybutanoyl]piperazine-1-carboxylic acid ethyl
                      913947-77-0P,
ester
        913947-76-9P
4-[(S)-4-Carboxy-2-[[(2-phenyl-6-phenylaminopyrimidin-4-
vl)carbonvllaminolbutanovllpiperazine-1-carboxvlic acid ethvl ester
913947-78-1P
              913947-79-22,
4-[(S)-4-Carboxy-2-[[[6-[(4-fluorophenyl)amino]-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913947-80-5P, 4-[(S)-4-Carboxy-2-[[(6-methyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-81-6P, 4-[(S)-4-Carboxy-2-[[(6-isopropyl-2-phenylpyrimidin-
4-vl)carbonvllaminolbutanovllpiperazine-1-carboxvlic acid ethvl ester
913947-82-7P, 4-[(S)-2-[[(6-Butyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]-4-carboxybutanoyl]piperazine-1-carboxylic acid ethyl
ester 913947-83-8P, 4-[(S)-4-Carboxy-2-[[(6-isobuty1-2-
phenylpyrimidin-4-y1)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
              913947-84-92,
4-[(S)-4-Carboxy-2-[[(6-cyclopropy1-2-phenylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913947-85-0P, 4-[(S)-4-Carboxy-2-[[(6-cyclopenty1-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
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ethyl ester 913947-86-1P.

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4-[(S)-4-Carboxy-2-[[(2,6-diphenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-87-29, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(o-tolyl)pyrimidin-
4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-88-3P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(m-tolyl)pyrimidin-
4-y1|carbony1|amino|butanoy1|piperazine-1-carboxy1ic acid ethy1 ester
913347-89-4P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(p-tolyl)pyrimidin-
4-v1|carbony1|amino|butanov1|piperazine-1-carboxylic acid ethyl ester
913947~90~7P, 4-[(S)-4-Carboxy-2-[[[6-(3-carboxyphenyl)-2-
phenylpyrimidin-4-vl|carbonyl|amino|butanovl|piperazine-1-carboxylic acid
             913947-91-89.
ethvl ester
4-(S)-4-Carboxy-2-([6-(4-carboxyphenyl)-2-phenylpyrimidin-4-
vl]carbonyl|amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913947-92-92, 4-[(S)-4-Carboxy-2-[[[2-(4-fluorophenyl)-6-
methylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethvl ester
             913947-93-0P.
4-[(S)-4-Carboxy-2-[[[2-(3-fluorophenyl)-6-methylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-94-1P, 4-[(S)-4-Carboxy-2-[[[2-(2-fluorophenyl)-6-
methylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
            913947-95-2P,
ethyl ester
4-[(S)-4-Carboxy-2-[[[2-(4-chlorophenyl)-6-methylpyrimidin-4-
vllcarbonvllamino|butanovl|piperazine-1-carboxvlic acid ethyl ester
913947-96-3P, 4-[(S)-4-Carboxy-2-[[[2-(3-chlorophenyl)-6-
methylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
              913947-97-42,
ethyl ester
4-[(S)-4-Carboxy-2-[[[2-(2-chlorophenyl)-6-methylpyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913947-98-5P, 4-[(S)-4-Carboxy-2-[[[6-methyl-2-(p-tolyl)pyrimidin-
4-vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913947-99-6P, 4-[(S)-4-Carboxy-2-[[[6-methyl-2-(m-tolyl)pyrimidin-
4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-00-2P, 4-[(S)-4-Carboxy-2-[[[2-(4-methoxyphenyl)-6-
methylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester 913948-01-3P,
4-[(S)-4-Carboxy-2-[[[2-(3-methoxyphenyl)-6-methylpyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913948-02-4P, 4-[2-[[(6-Isopropylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]acetyl]piperazine-1-carboxylic acid ethyl ester
913948-03-5P, 4-[2-[[[6-[(Benzyl)amino]-2-phenylpyrimidin-4-
vllcarbonvllaminolacetvllpiperazine-1-carboxvlic acid ethvl ester
913948-04-6P, 4-[2-[[(2,6-Diphenylpyrimidin-4-
vl)carbonvllaminolacetvllpiperazine-1-carboxvlic acid ethvl ester
913948-05-7P, 4-[2-[[(6-Cyclopropyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]acetyl]piperazine-1-carboxylic acid ethyl ester
913948-06-8P, 4-[(S)-2-[[(6-Isopropylamino-2-phenylpyrimidin-4-
v1)carbonv1]amino]-3-methylbutanov1]piperazine-1-carboxvlic acid ethyl
        913948-07-9P, 4-[(S)-2-[[[6-[(Benzyl)amino]-2-
ester
phenylpyrimidin-4-yl]carbonyl]amino]-3-methylbutanoyl]piperazine-1-
                             913948-08-09,
carboxylic acid ethyl ester
4-[(S)-2-[[(2,6-Diphenylpyrimidin-4-yl)carbonyl]amino]-3-
methylbutanovl|piperazine-1-carboxylic acid ethyl ester
913948-09-1P
              913948-10-4P
913948-13-7P,
                              913948-11-59
913948-12-6P
4-[(S)-5-Carboxy-2-[[(6-isopropylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]pentanoyl]piperazine-1-carboxylic acid ethyl ester
913948-14-8P, 4-[(S)-2-[[[6-[(Benzyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]-5-carboxypentanoyl]piperazine-1-carboxylic acid ethyl
        913948-15-9P, 4-|(S)-5-Carboxy-2-||(2,6-
ester
diphenylpyrimidin-4-yl)carbonyl]amino]pentanoyl]piperazine-1-carboxylic
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acid ethyl ester 913948-16-0P,
    4-[(S)-5-Carboxy-2-[[(6-cyclopropyl-2-phenylpyrimidin-4-
    vl)carbonvl]amino|pentanovl|piperazine-1-carboxvlic acid ethvl ester
    913948-17-12
                   913948-18-2P 913948-19-3P
                                  913949-19-6P,
     913949-17-4P
                   913949-18-5P
     4-[(S)-4-Carboxy-2-[[[6-[(isopropy1)(methy1)amino]-2-pheny1pyrimidin-4-
    y1]carbony1]amino]butanoy1]piperazine-1-carboxylic acid ethy1 ester
    913949-20-99
                   913949-21-0P,
    4-[(S)-4-Carboxy-2-[[[6-(morpholin-4-v1)-2-phenylpyrimidin-4-
    vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
    913949-22-1P
                   913949-23-2P.
    4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(thiazolidin-3-yl)pyrimidin-4-
    yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethvl ester
    913949-24-3P
                   913949-25-4P
                                  913949-26-5P,
    4-[(S)-4-Carboxy-2-[[[6-(piperazin-1-y1)-2-phenylpyrimidin-4-
    vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
    dihydrochloride
                     913949-27-69
                                     913949-28-79,
    4-[(S)-4-Carboxy-2-[[[6-[(4-hydroxybuty1)amino]-2-phenylpyrimidin-4-
    vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
     913949-29-8P
                   913949-30-12
                                 913949-31-2P
    913949-32-3P
                   913949-33-4P
                                  913949-34-5P
     913949-35-6P
                   913949-36-72
                                  913949-37-89
     913949-38-9P, 4-[(S)-4-Carboxy-2-[[[6-(imidazol-1-yl)-2-
    phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
                  913949-39-02,
    ethvl ester
     4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(pyrazol-1-yl)pyrimidin-4-
    yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
    913949-40-3P
                   913949-41-4P
                                  913949-42-5P,
     4-[(S)-4-Carboxy-2-[[[6-[(2-hydroxy-1,1-dimethylethyl)amino]-2-
    phenylpyrimidin-4-vl]carbonyl]amino|butanovl]piperazine-1-carboxylic acid
                                 913949-44-79
    ethvl ester
                  913949-43-6P
     913949-45-82
                   913949-46-9P,
     4-[(S)-4-Carboxy-2-[[(2-phenyl-6-propylsulfanylpyrimidin-4-
    v1)carbonv1laminolbutanov1lpiperazine-1-carboxv1ic acid ethv1 ester
    913949-47-0P, 4-[(S)-4-Carboxy-2-[[(6-isopropylsulfanyl-2-
    phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
    ethyl ester
                  913949-48-1P,
    4-[(S)-4-Carboxy-2-[[(6-cyclopentylsulfanyl-2-phenylpyrimidin-4-
    v1)carbonv1]amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
    913949-49-2P
                   913949-50-5P,
    4-[(S)-4-Carboxy-2-[[(6-cyclohexylsulfanyl-2-phenylpyrimidin-4-
    yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
    913949-51-6P, 4-((S)-4-Carboxy-2-((6-
    [[(ethoxycarbonyl)methyl]sulfanyl]-2-phenylpyrimidin-4-
    yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
    913949-52-7P, 4-[(S)-4-Carboxy-2-[[[6-[(2-
    ethoxycarbonylethyl)sulfanyll-2-phenylpyrimidin-4-
    vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
    913949-53-82
, 4-[(S)-4-Carboxy-2-[[[6-[(carboxymethyl)sulfanyl]-2-phenylpyrimidin-4-
    yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
    913949-54-9P, 4-[(S)-4-Carboxy-2-[[[6-[(2-carboxyethyl)sulfanyl]-2-
    phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
                  913949-55-0P,
    ethvl ester
     4-[(S)-4-Carboxy-2-[[(2-phenyl-6-phenylsulfanylpyrimidin-4-
    yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
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913949-56-1P, 4-[(S)-2-[[(6-Benzylsulfanyl-2-phenylpyrimidin-4yl)carbonyl]amino]-4-carboxybutanoyl]piperazine-1-carboxylic acid ethyl 913949-57-2P, 4-[(S)-4-Carboxy-2-[[(6-ethynyl-2-

phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid

ester

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ethyl ester 913949-58-3P,
4-[(S)-4-Carboxy-2-[[[6-(3-hydroxyprop-1-ynyl)-2-phenylpyrimidin-4-
vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913949-59-42
              913949-60-7P 913949-61-8P,
4-[(S)-4-Carboxy-2-[[[6-(3-hydroxy-3-methyl-1-butynyl)-2-phenylpyrimidin-4-
v1|carbony1|amino|butanoy1|piperazine-1-carboxylic acid ethy1 ester
913949-62-9P, 4-[(S)-4-Carboxy-2-[[[6-(3-hydroxypropy1)-2-
phenylpyrimidin-4-v1|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
              913949-63-0P
ethvl ester
                             913949-64-12
913949-65-2P, 4-[(S)-4-Carboxy-2-[[[6-(3-hydroxy-3-methylbuty1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
              913950-10-4P
                             913950-13-7P
ethvl ester
               913950-15-9P
                              913950-16-0P
913950-14-8P 913950-15-9P 913950-16-0P 913950-17-1P, 4-[(S)-4-Carboxy-2-[[[6-(4-methoxypiperidin-1-y1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
              913950-18-2P
                             913950-19-3P
ethvl ester
913950-20-6P
               913950-21-7P
                              913950-22-81
913950-23-99
               913950-24-0P
                              913950-25-1p
913950-26-2P
               913950-27-3P
913950-30-8P
                              913950-31-92,
4-[(S)-4-Carboxy-2-[[[6-(2-methyl-4,5-dihydroimidazol-1-yl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
              913950-32-0P
                             913950-33-1P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-([1,2,4]triazol-1-yl)pyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
               913950-35-32,
913950-34-2P
4-[(S)-4-Carboxy-2-[[[6-(4-methylpyrazol-1-y1)-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913950-36-4F, 4-[(S)-4-Carboxy-2-[[[6-(3-methylpyrazol-1-yl)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester
            913950-37-5P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-([1,2,3]triazol-1-yl)pyrimidin-4-
vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-38-6P, 4-[(S)-2-[[[6-(4-Butyl-[1,2,3]triazol-1-yl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]-4-carboxybutanoyl]piperazine-1-
carboxylic acid ethyl ester
                              913950-39-72,
4-[(S)-2-[[(6-Amino-2-phenylpyrimidin-4-v1)carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethvl ester
913950-40-0P
               913950-41-19,
4-[(S)-4-Carboxy-2-[[[6-[(cyclohexylcarbonyl)amino]-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913950-42-2P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[[(thien-2-
v1)carbonv1]amino|pvrimidin-4-v1|carbonv1|amino|butanov1|piperazine-1-
carboxylic acid ethyl ester 913950-43-3P,
4-[(S)-4-Carboxy-2-[[[6-[[(furan-2-y1)carbony1]amino]-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913950-44-4P
              913950-45-5P.
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(3-phenylpropionyl)amino]pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-46-6P, 4-[(S)-4-Carboxy-2-[[[6-[(3-
cyclopentylpropionyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-47-7P, 4-[(S)-4-Carboxy-2-[[[6-[(2,2-
dimethylpropionyl)aminol-2-phenylpyrimidin-4-
vl]carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-48-8P, 4-[(S)-4-Carboxy-2-[[[2-pheny1-6-[(2-
propylpentanovl)amino|pyrimidin-4-vl]carbonvl|amino|butanovl|piperazine-1-
carboxylic acid ethyl ester
                             913950-49-92.
4-[(S)-2-[[(6-Benzovlamino-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
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913950-50-2P 913950-51-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
TRU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (drug candidate; preparation of N-(4-pyrimidinylcarbonyl) amino acid
   piperazides and their use as P2Y12 receptor antagonists)
913950-52-4P, 4-[(S)-4-Carboxy-2-[[[6-
[(cvclobutvlcarbonvl)amino]-2-phenvlpvrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethyl ester
$13950~53~5P, 4-[(S)-4-Carboxy-2-[[[6-[(cyclopentylcarbonyl)amino]-
2-phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic
                  913950-54-6P,
acid ethvl ester
4-[(S)-4-Carboxy-2-[[(6-pentanoylamino-2-phenylpyrimidin-4-
vl)carbonvl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
              913950-56-8P,
913950-55-7P
4-[(S)-4-Carboxy-2-[[[6-[(cyclopropylcarbonyl)amino]-2-phenylpyrimidin-4-
v1|carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913950-57-9P, 4-[(S)-2-[[(6-Acetylamino-2-phenylpyrimidin-4-
v1)carbonv1]amino]-4-carboxvbutanov1]piperazine-1-carboxvlic acid ethv1
        913950-58-0P, 4-[(S)-2-[[(6-Butyrylamino-2-
phenylpyrimidin-4-yl)carbonyl]amino]-4-carboxybutanoyl]piperazine-1-
                             913950-59-1P,
carboxylic acid ethyl ester
4-[(S)-4-Carboxy-2-[[(6-isobutanoylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-60-4P, 4-[(S)-4-Carboxy-2-[[(2-phenyl-6-
propionylaminopyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-
                             913950-61-59,
carboxylic acid ethyl ester
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[[(propan-1-yl)sulfonyl]amino]pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-62-6P, 4-[(S)-4-Carboxy-2-[[[6-[(ethylsulfonyl)amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913950-63-7P,
4-[(S)-2-[[(6-[[(Phenyl)sulfonyl]amino]-2-phenylpyrimidin-4-
yl)carbonyl]amino]-4-carboxybutanoyl]piperazine-1-carboxylic acid ethyl
ester
        913950-64-8P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[[(propan-
2-y1)sulfony1]amino]pyrimidin-4-y1]carbony1]amino]butanoy1]piperazine-1-
carboxylic acid ethyl ester
                             913950-65-92,
4-[(S)-4-Carboxy-2-[[[6-(4-oxo-4H-pyridin-1-yl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-66-0P, 4-[(S)-4-Carboxy-2-[[[6-(3-methyl-5-oxo-2,5-
dihydropyrazol-1-vl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-67-1P
              913950-68-22
                            913950-69-3P,
4-[(S)-2-[[[6-[[(Benzyl)(methyl)amino]methyl]-2-phenylpyrimidin-4-
yl]carbonyl]amino]-4-carboxybutanoyl]piperazine-1-carboxylic acid ethyl
      913950-70-6P, 4-[(S)-4-Carboxy-2-[[[6-[(4-
ethoxycarbonylpiperidin-1-yl)methyl]-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913950-71-72
              913950-72-89,
4-[(S)-4-Carboxy-2-[[[6-[(4-methoxycarbonylpiperidin-1-yl)methyl]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913950-73-92
                            913950-74-0P
ethyl ester
913950-75-1P, 4-[(S)-4-Carboxy-2-[[[6-[(morpholin-4-yl)methyl]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
            913950-76-28 913950-77-38,
ethyl ester
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(piperidin-1-y1)methyl]pyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
              913950-79-5P,
913950-78-4P
4-((S)-4-Carboxy-2-[[[6-[[(ethyl)(methyl)amino]methyl]-2-phenylpyrimidin-4-
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yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester

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913950-89-8P, 4-[(S)-4-Carboxy-2-[[(6-diethylaminomethyl-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
            913950-81-9P,
ethvl ester
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(pyrrolidin-1-yl)methyl]pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-82-0P, 4-[(S)-4-Carboxy-2-[[[6-[(ethylsulfonyl)methyl]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913950-83-19,
ethyl ester
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(phenylsulfanyl)methyl]pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-84-2P, 4-[(S)-2-[[[6-[[(Phenyl)sulfonyl]methyl]-2-
phenylpyrimidin-4-yllcarbonyllaminol-4-carboxybutanoyllpiperazine-1-
                             913950-85-39,
carboxylic acid ethyl ester
4-[(S)-4-Carboxy-2-[[[6-[(cyclopentylsulfanyl)methyl]-2-phenylpyrimidin-4-
vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-86-4P, 4-I(S)-4-Carboxy-2-III6-
[(cvclopentvlsulfonvl)methvl]-2-phenvlpvrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-87-5P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(thiophen-3-
yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
            913950-88-6P,
ethyl ester
4-[(S)-4-Carboxy-2-[[[6-(2-methoxyphenyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-89-79, 4-[(S)-4-Carboxy-2-[[[6-(4-methylsulfonylphenyl)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
              913950-90-02,
ethyl ester
4-[(S)-2-[[[6-(4-Acetylphenyl)-2-phenylpyrimidin-4-yl]carbonyl]amino]-4-
carboxybutanovl]piperazine-1-carboxylic acid ethyl ester
913950-91-1P, 4-[(S)-4-Carboxy-2-[[[6-(2-fluorophenvl)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester 913950-92-2P,
4-[(S)-4-Carboxy-2-[[[6-(3-cyanophenyl)-2-phenylpyrimidin-4-
vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-93-3P, 4-[(S)-4-Carboxy-2-[[[6-(3-fluorophenyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913950-94-4P,
4-[(S)-4-Carboxy-2-[[[6-(4-methoxyphenyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-95-5P, 4-[(S)-4-Carboxy-2-[[[6-(furan-3-y1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913950-96-6P,
4-[(S)-2-[[[6-(Benzodioxol-5-yl)-2-phenylpyrimidin-4-yl]carbonyl]amino]-4-
carboxybutanovllpiperazine-1-carboxylic acid ethyl ester
913950-97-7P, 4-[(S)-4-Carboxy-2-[[[6-(3-methoxyphenyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913950-98-8P,
4-[(S)-4-Carboxy-2-[[[6-(4-hydroxymethylphenyl)-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913950-99-9P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(thiophen-2-
v1)pvrimidin-4-v1]carbonv1]amino]butanov1]piperazine-1-carboxvlic acid
ethyl ester
             913951-00-5P,
4-[(S)-4-Carboxy-2-[[[6-(4-cyanophenyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-01-6P, 4-[(S)-4-Carboxy-2-[[[6-(3-chlorophenyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
             913951-02-7P,
4-[(S)-2-[[[6-(Biphenyl-4-y1)-2-phenylpyrimidin-4-y1]carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913951-03-8P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(1H-pyrazol-4-
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yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid

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ethvl ester 913951-04-9P
                             913951-05-0P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(3-trifluoromethylphenyl)pyrimidin-4-
vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913951-06-1P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(pyridin-3-
vl)pyrimidin-4-vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913951-07-2P,
4-[(S)-4-Carboxy-2-[[[2-pheny1-6-(pyridin-4-y1)pyrimidin-4-
v1]carbonv1]amino]butanov1]piperazine-1-carboxv1ic acid ethv1 ester
913951~08~3F, 4-|(S)-4-Carboxy-2-|||2-phenyl-6-(thiazol-2-
v1)pvrimidin-4-v1|carbonv1|amino|butanov1|piperazine-1-carboxvlic acid
              913951-09-49.
ethyl ester
4-[(S)-2-[[(6-Acetyl-2-phenylpyrimidin-4-v1)carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913951-10-72
              913951-11-82
                             913951-12-92
913951-13-0P, 4-[(S)-4-Carboxy-2-[[[6-(1-hydroxy-1-methylethyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913951-14-1P,
ethvl ester
4-[(S)-4-(Ethoxycarbonyl)-2-[[[6-(1-hydroxy-1-methylethyl)-2-
phenylpyrimidin-4-vl[carbonyl]amino|butanoyl]piperazine-1-carboxylic acid
ethyl ester
             913951-15-2P,
4-[(S)-4-Carboxy-2-[[[6-(2-hydroxyethyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-16-3P, 4-[(S)-4-Carboxy-2-[[[6-(2-methoxyethy1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
                            913951-18-5P
             913951-17-4P
ethvl ester
              913951-20-9P
                             913951-21-0F
913951-19-6P
913951-22-1P, 4-[(S)-4-Carboxy-2-[[[6-(3,6-dihydro-2H-pyran-4-yl)-
2-phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic
acid ethyl ester 913951-23-2P.
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(tetrahydropyran-4-yl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-24-3P
             913951-25-4P,
4-[(S)-4-Carboxy-2-[[[6-(1-oxopyridin-3-y1)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913951-26-5P 913951-27-6P
                              913951-28-72
913951-29-8P
              913951-30-1P
                              913951-31-2P
913951-32-3P, 4-[(S)-4-Carboxy-2-[[(6-cyano-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-33-42
             913951-34-59
                              913951-35-6P
              913951-37-89,
913951-36-7P
4-[(S)-4-Carboxy-2-[[(6-ethoxymethyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-38-9P, 4-[(S)-4-Carboxy-2-[[(2-phenyl-6-
trifluoromethylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-
carboxylic acid ethyl ester 913951-39-0P,
4-[(S)-2-[[(6-tert-Butv1-2-phenvlpyrimidin-4-v1)carbonv1]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913951-40-3P, 4-[(S)-4-Carboxy-2-[[(6-phenoxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-41-4P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(pyridin-3-
yl)oxy]pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
             913951-42-5P,
(S)-5-[4-(tert-Butylcarbamoyl)piperazin-1-yl]-4-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]-5-oxopentanoic acid
913951-43-6P, (S)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]-5-[4-(isopropylcarbamoyl)piperazin-1-yl]-5-oxopentanoic
       913951-44-7P, (S)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-
4-y1)carbonyl]amino]-5-oxo-5-[4-[(thien-2-y1)carbonyl]piperazin-1-
                  913951-45-8P,
vl|pentanoic acid
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(S)-5-[4-(Cyclopentylcarbonyl)piperazin-1-yl]-4-[[(6-cyclopentyloxy-2-

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phenylpyrimidin-4-vl)carbonyllaminol-5-oxopentanoic acid
913951-46-9P, (S)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1[amino]-5-oxo-5-[4-[(piperidin-1-v1)carbonv1]piperazin-1-
yl]pentanoic acid 913952-00-8P,
4-[(S)-4-Carboxy-2-[[[6-(1-oxopyridin-2-y1)-2-phenylpyrimidin-4-
v1|carbony1|amino|butanoy1|piperazine-1-carboxylic acid ethy1 ester
913952-01-9P, 4-[(S)-4-Carboxy-2-[[[6-(1-oxopyridin-4-y1)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
             913952-02-0P.
ethvl ester
4-[(S)-4-Carboxy-2-[[[6-(2-hydroxy-1,1-dimethylethyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913952-06-42
             913952-07-5P
                             913952-08-6P
913952-09-7P, 4-[(S)-4-Carboxy-2-[[[6-[(carboxymethyl)amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
            913952-10-0P,
ethyl ester
4-[(S)-4-Carboxy-2-[[[6-[(2-hydroxyethyl)amino]-2-phenylpyrimidin-4-
vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913952-11-1P, 4-[(S)-4-Carboxy-2-[[[6-[(2-carboxyethyl)amino]-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester
             913952-12-2P,
4-[(S)-4-Carboxy-2-[[[6-[(3-hydroxypropyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
                             913952-15-59
              913952-14-4P
913952-16-6P, 4-[(S)-4-Carboxy-2-[[[6-(4-hydroxypiperidin-1-y1)-2-
phenylpyrimidin-4-vl]carbonyl]amino]butanovl]piperazine-1-carboxylic acid
             913952-17-72,
ethyl ester
4-[(S)-4-Carboxy-2-[[[6-(piperazin-1-y1)-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913952-18-89
             913952-19-97,
4-[(S)-4-Carboxy-2-[[[6-[(2-methoxy-1,1-dimethylethyl)amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913952-20-2P,
4-[(S)-4-Carboxy-2-[[[6-(4,5-dihydropyrazol-1-yl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913953-38-5P 913967-10-9P
                             913967-12-12
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
  (drug candidate; preparation of N-(4-pyrimidinylcarbonyl) amino acid
  piperazides and their use as P2Y12 receptor antagonists)
3282-30-2P, Pivalov1 chloride 13514-79-9P,
6-Methyl-2-phenylpyrimidin-4-ol 13754-38-6P,
(Phenyl) (piperazin-1-yl) methanone 24779-45-1P,
trans-2,5-Dimethylpiperazine-1-carboxylic acid ethyl ester 26531-82-8P,
(S)-(Amino)(4-hydroxyphenyl)ethanoic acid methyl ester 29509-92-0P,
4-Chloro-6-methyl-2-phenylpyrimidine 50606-33-2P 73955-56-1P
, 6-Methyl-2-phenylpyrimidine-4-carboxylic acid methyl ester
81925-29-3P, 3-(Tributylstannanyl)prop-2-en-1-ol 84477-85-0P,
3-Methylpiperazine-1-carboxylic acid benzyl ester 85815-04-9P,
6-Methoxy-2-phenylpyrimidine-4-carboxylic acid 89581-58-8P.
2-Chloro-6-methylpyrimidine-4-carboxylic acid 90152-49-1P,
3-Methylpiperazine-1-carboxylic acid ethyl ester 120737-73-7P,
2-Methylpiperazine-1-carboxylic acid ethyl ester 122135-83-5P,
2-[(Trifluoromethylsulfonyl)oxy]cyclohex-1-ene-1-carboxylic acid ethyl
ester
      123334-59-8P, 3-(3-Benzyloxyphenyl)-2-[(tert-
butoxycarbonyl)amino]propionic acid 123593-66-8P,
(S)-(4-Benzyloxyphenyl)-tert-butoxycarbonylaminoethanoic acid
162536-44-9P, 2-Amino-3-(3-hydroxyphenyl)propionic acid methyl ester
170011-47-9P, Trifluoromethanesulfonic acid
1,4-dioxaspiro[4.5]dec-7-en-8-yl ester 179187-31-6P,
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ΙT

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2-[(tert-Butoxycarbonyl)amino]-3-(2-hydroxyphenyl)propionic acid methyl
ester 188975-30-6P, Trifluoromethanesulfonic acid
3.6-dihvdro-2H-pyran-4-vl ester
                                209535-63-7P.
4-Methyl-2-phenyl-6-trifluoromethylpyrimidine 225517-15-7P,
(S)-(tert-Butoxycarbonylamino)(4-hydroxyphenyl)ethanoic acid methyl ester
282100-79-2P, 2-[(tert-Butoxycarbonyl)amino]-3-(3-hydroxyphenyl)propionic
acid methyl ester 325685-59-4P, 4-Chloro-6-(methoxymethyl)-2-
phenylpyrimidine 325685-75-4P, (6-Chloro-2-phenylpyrimidin-4-yl)methanol
339278-89-6P, 6-Methoxymethyl-2-phenylpyrimidin-4-ol
                                                    359821-46-8P.
4-(2-Aminoacetyl)piperazine-1-carboxylic acid ethyl ester 361547-56-0P,
3-[(tert-Butyldimethylsilanyl)oxy]-2,2-dimethylpropionic acid methyl ester
368424-88-8P, 4-Benzoylpiperazine-1-carboxylic acid benzyl ester
528602-18-8P, 3-[(tert-Butyldimethylsilanyl)oxy]-2,2-dimethylpropionic
      710335-28-7P, 4-((S)-2-Amino-4-tert-
butoxycarbonylbutanoyl)piperazine-1-carboxylic acid ethyl ester
710335-29-8P, 4-[(S)-2-[(Benzyloxycarbonyl)amino]-4-tert-
butoxycarbonylbutanoyl]piperazine-1-carboxylic acid ethyl ester
757168-92-6P, 2-Amino-3-(2-hydroxyphenyl)propionic acid methyl ester
856840-41-0P, 1-(Piperazin-1-yl)butan-1-one hydrochloride
858269-17-7P, 6-Methyl-2-phenylpyrimidine-4-carboxylic acid
859525-60-3P, 1-[(Propan-1-yl)sulfonyl]piperazine hydrochloride
907951-69-3P, (S)-(4-Benzyloxyphenyl) (tert-butoxycarbonylamino)ethanoic
acid methyl ester
                   913952-21-3P,
4-Cyclopentyloxy-6-(methoxymethyl)-2-phenylpyrimidine
913952-22-49, (6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)methanol
913952-23-5P, 6-Cyclopentyloxy-2-phenylpyrimidine-4-carboxaldehyde
913952-24-6P, 6-Cyclopentyloxy-2-phenylpyrimidine-4-carboxylic
     913952-25-7P 913952-26-8P 913952-27-9P,
acid
4-[(S)-2-[(Benzyloxycarbonyl)amino]-5-tert-
butoxycarbonylpentanovllpiperazine-1-carboxylic acid ethyl ester
913952-28-0P, 4-((S)-2-Amino-5-tert-butoxycarbonylpentanoyl)piperazine-1-
carboxylic acid ethyl ester 913952-29-1P,
4-[2-(Benzyloxycarbonylamino)acetyl]piperazine-1-carboxylic acid ethyl
ester 913952-30-4P, 4-[($)-2-[(tert-Butoxycarbonyl)amino]-3-
methylbutanoyl]piperazine-1-carboxylic acid ethyl ester 913952-31-5P,
4-((S)-2-Amino-3-methylbutanoyl)piperazine-1-carboxylic acid ethyl ester
hydrochloride 913952-32-6P 913952-33-7P 913952-34-8P,
4-[(S)-2-[(tert-Butoxycarbonyl)amino]-4-carbamoylbutanoyl]piperazine-1-
carboxvlic acid ethvl ester 913952-35-9P,
4-((S)-2-Amino-4-carbamoylbutanoyl)piperazine-1-carboxylic acid ethyl
ester hydrochloride 913952-36-0P 913952-37-1P
                                                  913952-38-2P
913952-39-3P, 4-[(S)-6-[(Benzyloxycarbonyl)amino]-2-[(tert-
butoxycarbonyl)aminolhexanovllpiperazine-1-carboxylic acid ethyl ester
913952-40-6P, 4-[(S)-2-Amino-6-
[(benzyloxycarbonyl)amino]hexanoyl]piperazine-1-carboxylic acid ethyl
ester hydrochloride 913952-41-7P,
4-[(S)-6-[(Benzyloxycarbonyl)amino]-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-vl)carbonyllaminolhexanovllpiperazine-1-carboxylic acid
ethyl ester 913952-42-8P 913952-43-9P 913952-44-0P
913952-45-1P
              913952-46-29,
4-[(S)-4-Cyano-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913952-47-3P 913952-48-4P
                            913952-49-5P 913952-50-8P
913952-51-9P 913952-52-0P
                             913952-53-1P
                                            913952-54-2P
913952-55-3P 913952-56-4P,
[(6-Methyl-2-phenylpyrimidin-4-yl)oxy]acetic acid methyl ester
913952-57-5P, 6-[(Methoxycarbonyl)methoxy]-2-phenylpyrimidine-4-
carboxylic acid 913952-58-6P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(methoxycarbonyl)methoxy]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
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ethvl ester 913952-59-7P,
6-Chloro-2-phenylpyrimidine-4-carboxylic acid 913952-60-0P,
2-Phenvl-6-propoxypyrimidine-4-carboxylic acid
                                                913952-61-19,
6-(2-Hydroxyethoxy)-2-phenylpyrimidine-4-carboxylic acid
913952-62-2P, 6-Benzyloxy-2-phenylpyrimidine-4-carboxylic acid
913952-63-3P, 6-Cyclopropylmethoxy-2-phenylpyrimidine-4-carboxylic
       913952-64-4P, 6-Cyclohexyloxy-2-phenylpyrimidine-4-
                913952-65-5P,
carboxylic acid
6-Isopropoxy-2-phenylpyrimidine-4-carboxylic acid 913952-66-6P.
3-(3-Benzyloxyphenyl)-2-[(tert-butoxycarbonyl)amino]propionic acid methyl
       913952-67-7P, 4-[3-(3-Benzyloxyphenyl)-2-[(tert-
ester
butoxycarbonyl)amino|propionyl|piperazine-1-carboxylic acid ethyl ester
913952-68-8P, 4-[2-Amino-3-(3-benzyloxyphenyl)propionyl|piperazine-1-
carboxvlic acid ethvl ester hydrochloride
                                           913952-69-9P,
4-[3-(3-Benzyloxyphenyl)-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonvllaminolpropionvllpiperazine-1-carboxvlic acid ethyl ester
913952-70-2P, 4-[2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]-3-(3-hydroxyphenyl)propionyl]piperazine-1-carboxylic
acid ethyl ester 913952-71-3P, 3-(2-Benzyloxyphenyl)-2-[(tert-
butoxycarbonyl)amino]propionic acid methyl ester
                                                  913952-72-4P.
3-(2-Benzyloxyphenyl)-2-[(tert-butoxycarbonyl)amino]propionic acid
913952-73-5P, 4-[3-(2-Benzyloxyphenyl)-2-[(tert-
butoxycarbonyl)amino|propionyl|piperazine-1-carboxylic acid ethyl ester
913952-74-6P, 4-[2-Amino-3-(2-benzyloxyphenyl)propionyl|piperazine-1-
carboxvlic acid ethyl ester hydrochloride
                                           913952-75-79
913952-76-8P, 4-[2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]-3-(2-hydroxyphenyl)propionyl]piperazine-1-carboxylic
acid ethyl ester 913952-77-9P, 4-|(S)-2-(4-Benzyloxyphenyl)-2-(tert-
butoxycarbonylamino)ethanoyl]piperazine-1-carboxylic acid ethyl ester
913952-78-0P, 4-(S)-2-Amino-2-(4-benzyloxyphenyl)ethanovl[piperazine-1-
carboxylic acid ethyl ester hydrochloride 913952-79-19,
4-[(S)-2-(4-Benzyloxyphenyl)-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]ethanoyl]piperazine-1-carboxylic acid ethyl ester
913952-80-4P, 4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
v1) carbony1 amino | -2-(4-hydroxypheny1) ethanoy1 | piperazine-1-carboxylic
                  913952-81-5P
                                 913952-82-69
acid ethvl ester
913952-83-7P
              913952-84-8P 913952-85-9P,
4-Butyrylpiperazine-1-carboxylic acid tert-butyl ester 913952-86-0P,
4-[(Propan-1-v1)sulfonv1]piperazine-1-carboxvlic acid tert-butv1 ester
913952-87-1P
              913952-88-29,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-chloro-2-phenylpyrimidin-4-
yl)carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
913952-89-3P, 4-((S)-4-tert-Butoxycarbonyl-2-(((2-chloro-6-methylpyrimidin-
4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913952-90-6P, 4-[2-[[(6-Chloro-2-phenylpyrimidin-4-
v1)carbonv1|amino|acetv1|piperazine-1-carboxv1ic acid ethv1 ester
913952-91-7F, 4-[(S)-2-[[(6-Chloro-2-phenylpyrimidin-4-
v1)carbonv1|amino|-3-methylbutanov1|piperazine-1-carboxvlic acid ethyl
       913952-92-82
                      913952-93-99.
4-[(S)-5-tert-Butoxycarbonyl-2-[[(6-chloro-2-phenylpyrimidin-4-
yl)carbonyl]amino]pentanoyl]piperazine-1-carboxylic acid ethyl ester
913952-94-0P
              913952-95-1P
                             913952-96-2P
913952-97-3P
               913952-98-4P
                              913952-99-5P,
4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(1,4-dioxaspiro[4.5]dec-7-en-8-y1)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester
             913953-00-1P,
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4-[(S)-4-Carboxy-2-[[(6-chloro-2-phenylpyrimidin-4-

913953-01-29,

ethvl ester

4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(1,4-dioxaspiro[4.5]decan-8-yl)-2-phenylpyrimidin-4-yl]carbonyllaminolbutanoyllpiperazine-1-carboxylic acid

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yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913953-02-3P, 4-[(S)-2-[[(6-Azido-2-phenylpyrimidin-4-
v1)carbonv1|amino|-4-tert-butoxycarbonv1butanov1|piperazine-1-carboxylic
acid ethyl ester 913953-03-4P
                                 913953-04-52
913953-05-6P
              913953-06-79,
6-Formy1-2-phenylpyrimidine-4-carboxylic acid methyl ester
913953-07-8P, 6-Hydroxymethyl-2-phenylpyrimidine-4-carboxylic acid
methyl ester 913953-08-9P,
6-Chloromethyl-2-phenylpyrimidine-4-carboxylic acid methyl ester
913953-09-0P, 6-Chloromethyl-2-phenylpyrimidine-4-carboxylic acid
913953-10-3P, 4-[(S)-4-tert-Butoxycarbony1-2-[[(6-chloromethy1-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
ethyl ester 913953-11-4P
                            913953-12-5P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-vinylpyrimidin-4-
v1)carbonv1]amino]butanov1]piperazine-1-carboxv1ic acid ethv1 ester
913953-14-72
              913953-15-8P 913953-16-9P.
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-oxopropyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913953-17-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-
ethoxycarbonylcyclohex-1-enyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913953-18-1P
             913953-19-29,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4,5-dihydrofuran-3-yl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913953-20-52,
ethvl ester
6-(1-Hydroxypropyl)-2-phenylpyrimidine-4-carboxylic acid methyl ester
913953-21-6P, 6-(1-Hydroxypropyl)-2-phenylpyrimidine-4-carboxylic
      913953-22-7P, 6-(1-Hydroxybutyl)-2-phenylpyrimidine-4-
carboxylic acid methyl ester 913953-23-8P,
6-(1-Hydroxybutyl)-2-phenylpyrimidine-4-carboxylic acid
913953-24-9P, 6-[(Hydroxy)(phenyl)methyl]-2-phenylpyrimidine-4-
carboxvlic acid methyl ester 913953-25-0P,
6-[(Hydroxy)(phenyl)methyl]-2-phenylpyrimidine-4-carboxylic acid
913953-26-1P, 6-(2-Hydroxy-2-phenylethyl)-2-phenylpyrimidine-4-
carboxylic acid
                913953-27-29,
2-Phenyl-6-trifluoromethylpyrimidine-4-carboxylic acid 913953-28-3P,
Acetic acid 5.5-dimethyl-4-oxo-2-hexynyl ester 913953-29-4P, Acetic acid
6-tert-butyl-2-phenylpyrimidin-4-ylmethyl ester 913953-30-7P,
(6-tert-Buty1-2-phenylpyrimidin-4-yl)methanol 913953-31-8P,
6-tert-Butyl-2-phenylpyrimidine-4-carboxylic acid 913953-32-9P, Acetic
acid 6-((tert-butyldimethylsilanyl)oxyl-5,5-dimethyl-4-oxo-2-hexynyl ester
913953-33-0P, Acetic acid [6-[2-[(tert-butyldimethylsilanyl)oxy]-1,1-
dimethylethyll-2-phenylpyrimidin-4-yllmethyl ester 913953-34-1P.
[6-[2-[(tert-Butyldimethylsilanyl)oxy]-1,1-dimethylethyl]-2-
phenylpyrimidin-4-yl]methanol 913953-35-29,
6-[2-[(tert-Butvldimethylsilanvl)oxy]-1,1-dimethylethyl]-2-
phenylpyrimidine-4-carboxylic acid 913953-36-3P.
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[2-[(tert-butyldimethylsilanyl)oxy]-
1,1-dimethylethyl]-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913953-37-4P, [2-(Tributylstannanyl)cyclopropyl]methanol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
  (intermediate; preparation of N-(4-pyrimidinylcarbonyl) amino acid
  piperazides and their use as P2Y12 receptor antagonists)
64-04-0, 2-Phenylethylamine 78-81-9, Isobutylamine 78-96-6,
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1-Amino-2-propanol 79-03-8, Propionyl chloride 79-30-1, Isobutyryl chloride 96-32-2, Methyl bromoacetate 96-35-5, Methyl glycolate 98-02-2, Furfuryl mercaptan 98-09-9, Benzenesulfonyl chloride 98-80-6,

Phenylboronic acid 100-53-8, Benzyl mercaptan 103-67-3,

N-Benzylmethylamine 103-80-0, Phenylacetyl chloride 104-97-2, 3-Cyclopentylpropionyl chloride 105-36-2, Ethyl bromoacetate 106-94-5, 1-Bromopropane 107-03-9, 1-Propanethiol 107-10-8, Propylamine, reactions 107-19-7, Propargyl alcohol 108-00-9, 2-Dimethylaminoethylamine 108-12-3, Isovaleryl chloride 108-23-6, Isopropyl chloroformate 108-93-0, Cyclohexyl alcohol, reactions 108-98-5, Thiophenol, reactions 109-00-2, 3-Hydroxypyridine 109-07-9, 2-Methylpiperazine 109-55-7, (3-Dimethylaminopropan-1-yl)amine 109-89-7, Diethylamine, reactions 109-98-8, 2-Pyrazoline 110-68-9, Methyl(butyl)amine 115-19-5, 2-Methyl-3-butyn-2-ol 120-43-4, 1-Ethoxycarbonylpiperazine 120-92-3, Cyclopentanone 123-00-2, 4-(3-Aminopropy)lmorpholine 137-43-9, Bromocyclopentane 140-88-5, Ethyl acrylate 141-75-3, Butryryl chloride 141-91-3, 2,6-Dimethylmorpholine 141-77-9, Ethyl actoacetate 156-87-6, 3-Aminopropan-1-ol 367-57-7, 1,1,1-Trifluoro-2,4-pentanedione 371-40-4, 4-Fluoroaniline 501-53-1, Benzyl chloroformate 503-29-7, Azetidine 504-78-9, Thiazolidine 513-42-8, 2-Methyl-2-propen-1-ol 527-69-5, 2-Furoyl chloride 527-72-0, 2-Thiophenecarboxylic acid 534-26-9, 2-Methyl-2-imidazoline 543-27-1, Isobutyl chloroformate 582-22-9, β-Methylphenethylamine 592-34-7, Butyl chloroformate 618-39-3, Benzamidine 623-33-6 623-51-8, Ethyl 2-mercaptoacetate 624-78-2 626-64-2, 4-Pyridinol 627-09-8, Propargyl acetate 627-27-0, 3-Buten-1-ol 638-29-9, Valeryl chloride 645-45-4, 3-Phenylpropionyl chloride 688-73-3, Tributylstannane 693-02-7, 1-Hexyne 765-30-0, Cyclopropylamine 768-35-4, 3-Fluorophenylboronic acid 775-06-4 821-09-0, 4-Penten-1-ol 920-39-8, Isopropylmagnesium bromide 1003-03-8, Cyclopentylamine 1066-54-2, Trimethylsilylacetylene 1068-47-9, 1-Mercapto-2-propanol 1122-99-2, Cyclopentylacetyl chloride 1126-09-6, Ethyl isonipecotate 1138-80-3 1191-99-7, 2,3-Dihydrofuran 1423-26-3, [3-(Trifluoromethyl)phenyl]boronic acid 1453-58-3, 3-Methylpyrazole 1569-69-3, Cyclohexanethiol 1609-86-5, tert-Butyl isocyanate 1655-07-8, Ethyl 2-cyclohexanonecarboxylate 1670-14-0, Benzamidine hydrochloride 1679-07-8, Cyclopentyl mercaptan 1679-18-1, 4-Chlorophenylboronic acid 1692-15-5, Pyridin-4-ylboronic acid 1692-25-7, Pyridin-3-ylboronic acid 1765-93-1, 4-Fluorophenylboronic 1795-48-8, Isopropyl isocyanate 1885-14-9, Phenyl chloroformate 1986-47-6, (trans-2-Phenylcyclopropyl)amine hydrochloride 1993-03-9, 2-Fluorophenylboronic acid 2028-63-9, 3-Butyn-2-o1 2038-03-1, 4-(2-Aminoethyl)morpholine 2130-96-3 2304-96-3 2338-18-3, 2-Aminoindan hydrochloride 2370-61-8 2389-45-9 2516-33-8, Cyclopropylmethanol 2627-86-3, (S)-Methylbenzylamine 2680-03-7, N, N-Dimethylacrylamide 2719-27-9, Cyclohexanecarbonyl chloride 2749-11-3, (S)-(+)-2-Amino-1-propanol 2799-21-5, (R)-3-Hydroxypyrrolidine 2815-34-1, trans-2,5-Dimethylpiperazine 2936-08-5, 2,2-Di-n-propylacetyl chloride 2971-79-1, Methyl isonipecotate 3400-45-1, Cyclopentanecarboxylic acid 3433-37-2, 2-Hydroxymethylpiperidine 3886-08-6 3886-69-9, (R)-α-Methylbenzenemethanamine 3900-89-8, 2-Chlorophenylboronic acid 4023-34-1, Cyclopropanecarbonyl chloride 4187-86-4, Ethylethynylcarbinol 4244-84-2 4344-87-0 4426-47-5, Butylboronic acid 4524-93-0, Cyclopentanecarbonyl chloride 4746-97-8, 1,4-Dioxaspiro[4.5]decan-8-one 4747-21-1, N-Isopropylmethylamine 4795-29-3, Tetrahydrofurfurvlamine 5006-22-4, Cyclobutanecarbonyl chloride 5122-94-1, Biphenyl-4-ylboronic acid 5271-67-0, 2-Thiophenecarbonyl chloride 5382-16-1, 4-Hydroxypiperidine 5456-63-3, trans-2-Aminocyclohexanol hydrochloride 5466-06-8, Ethyl 3-mercaptopropionate 5545-52-8 5720-05-8, 4-Tolylboronic acid 5720-06-9, 2-Methoxyphenylboronic acid 5720-07-0, 4-Methoxyphenylboronic acid 6165-68-0, Thien-2-ylboronic acid 6165-69-1, Thien-3-ylboronic acid 6168-72-5, 2-Aminopropanol 6783-05-7,

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(trans-2-Phenylethenyl)boronic acid 6859-99-0, 3-Hydroxypiperidine
7226-23-5, 1,3-Dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone 7554-65-6,
4-Methylpyrazole 10147-36-1, 1-Propanesulfonyl chloride 10147-37-2,
2-Propanesulfonyl chloride 10277-74-4, (R)-1-Aminoindan 10365-98-7,
3-Methoxyphenylboronic acid 13325-10-5, 4-Amino-1-butanol 13726-85-7
13734-41-3 13939-69-0, 1-Piperidinecarbonyl chloride
                                                      14002-80-3,
Methyl 2,2-dimethyl-3-hydroxypropionate 14047-29-1,
4-Carboxyphenylboronic acid 16419-60-6, 2-Tolylboronic acid 16947-84-5
17933-03-8, 3-Tolylboronic acid 18162-48-6, tert-Butyldimethylsilyl
chloride 20412-38-8, Neopentyl chloroformate 23356-96-9, L-Prolinol
            25487-66-5, 3-Carboxyphenylboronic acid
23680-31-1
                                                    25611-78-3.
1,2-Diphenvlethylamine 27489-62-9, trans-4-Aminocyclohexanol
29943-42-8, Tetrahydro-4H-pyran-4-one 31166-44-6,
                                                      33240-34-5.
Piperazine-1-carboxylic acid benzyl ester 32462-30-9
Cyclopentylmagnesium bromide 34698-41-4, 1-Aminoindan 35320-23-1,
(R)-(-)-2-Amino-1-propanol 35718-08-2, Propargyl chloroformate
37143-54-7, 2-Amino-1-methoxypropane 38870-89-2, Methoxyacetyl chloride
40172-95-0, 1-(2-Furoy1)piperazine 41051-15-4, Methyl
4-methoxyacetoacetate 53838-27-0 54812-86-1, 3-Mercapto-2-butanol
55552-70-0, Furan-3-ylboronic acid 57260-71-6 58640-01-0 59016-93-2,
[4-(Hydroxymethyl)phenyl]boronic acid 63503-60-6, 3-Chlorophenylboronic
      68832-13-3, D-Prolinol 84110-40-7, Isobutylboronic acid
89793-11-3, 2-Chloro-6-methylpyrimidine-4-carboxylic acid methyl ester
94839-07-3, (3,4-Methylenedioxyphenyl)boronic acid 97674-02-7,
                               100243-39-8, (S)-3-Hydroxypyrrolidine
(1-Ethoxyvinyl)tributylstannane
111769-26-7, (R)-3-Aminotetrahydrofuran
                                       120686-18-2, tert-Butvl
(3S)-3-amino-3-phenylpropanoate 121359-48-6, 2-(Tributylstannyl)thiazole
126747-14-6, 4-Cyanophenylboronic acid 131724-45-3 149104-88-1,
4-(Methylsulfonyl)phenylboronic acid 149104-90-5, 4-Acetylphenylboronic
acid 150255-96-2, 3-Cyanophenylboronic acid 160063-50-3 161671-34-7,
tert-Butyl (3R)-3-amino-3-phenylpropanoate 201668-29-3 269410-08-4,
4,4,5,5-Tetramethyl-2-(1H-pyrazol-4-yl)-1,3,2-dioxaborolane 411235-57-9,
Cyclopropylboronic acid 913953-13-6,
4-[(S)-2-[[(6-Phenylsulfonyl-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-tert-
butoxycarbonylbutanoyl]piperazine-1-carboxylic acid ethyl ester
914069-98-0
RL: RCT (Reactant); RACT (Reactant or reagent)
   (preparation of N-(4-pyrimidinylcarbonyl) amino acid piperazides and their
  use as P2Y12 receptor antagonists)
             1160048-83-8P 1160050-66-7P
528602-20-2P
                                            1160053-70-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation of N-(4-pyrimidinylcarbonyl) amino acid piperazides and their
  use as P2Y12 receptor antagonists)
913946-66-4P 913946-67-5P 913946-68-6P,
4-[(S)-5-Carboxy-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1) carbonyllaminolpentanovllpiperazine-1-carboxylic acid ethyl ester
913946-71-1P
             913946-72-2P,
4-[(S)-4-Carbamoyl-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1lamino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
             913946-76-6P.
4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-
hydroxybutanoyl]piperazine-1-carboxylic acid ethyl ester
                             913948-20-6P,
913947-30-5P
              913947-34-92
4-[(S)-4-tert-Butoxycarbony1-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-21-7P
              913948-22-8P,
4-[(S)-5-tert-Butoxycarbony1-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
vl)carbonvl|amino|pentanovl|piperazine-1-carboxvlic acid ethvl ester
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913948-23-9P, 4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-

ΙT

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v1)carbonv1]amino]-4-[(ethoxycarbonv1)methoxy]butanov1]piperazine-1-
carboxylic acid ethyl ester
                             913948-24-0P
913948-25-1P
              913948-26-2P,
4-[(S)-4-tert-Butoxycarbony1-2-[[(6-carboxymethoxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-27-3P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-
propoxypyrimidin-4-y1)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
            913948-28-4P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-hydroxyethoxy)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913948-29-5P, 4-[(S)-2-[[[6-[(Benzyl)oxy]-2-phenylpyrimidin-4-
vl]carbonvl]amino]-4-tert-butoxycarbonvlbutanovl]piperazine-1-carboxylic
                  913948-30-8P,
acid ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(cyclopropylmethoxy)-2-phenylpyrimidin-
4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-31-9P, 4-I(S)-4-tert-Butoxycarbonyl-2-II(6-cyclohexyloxy-2-
phenylpyrimidin-4-vl)carbonyllamino|butanovl]piperazine-1-carboxylic acid
ethyl ester 913948-32-0P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-isopropoxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-33-1P, 4-[(S)-4-tert-Butoxycarbony1-2-[[(6-methoxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913948-34-2P,
4-[2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-3-[3-
(ethoxycarbonyl)methoxylphenyllpropionyllpiperazine-1-carboxylic acid
              913948-35-3P,
ethyl ester
4-[2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-y1)carbonyl]amino]-3-[2-
[(ethoxycarbonyl)methoxylphenyl]propionyl]piperazine-1-carboxylic acid
ethvl ester
             913948-36-49.
4-[(S)-2-[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-2-[4-
[(ethoxycarbonyl)methoxy]phenyl]ethanoyl]piperazine-1-carboxylic acid
ethvl ester 913948-37-5P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1]amino]butanov1]piperazine-1-carboxv1ic acid prop-2-vnv1 ester
913948-38-6P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
butyl ester
             913948-39-72,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid isobutyl ester
913948-40-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
2,2-dimethylpropyl ester 913948-41-1P,
4-((S)-4-tert-Butoxycarbonyl-2-((6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid isopropyl ester
913948-42-2P
              913948-43-3P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonvllaminolbutanovllpiperazine-1-carboxvlic acid phenvl ester
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yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid benzyl ester  $\underline{913948-46-6P} \quad \underline{913948-47-7P},$  (5)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-5-oxo-5-[4-[(propan-1-yl)sulfonyl]piperazin-1-yl]pentanoic acid tert-butyl ester  $\underline{913948-48-8P} \quad \underline{913948-49-9P} \quad \underline{913948-50-2P} \quad \underline{913948-51-3P}, \quad 4-[(5)-4-tert-Butoxycarbonyl-2-[[(6-methylamino-2-methylpyrimidin-2-methylpyrimidin-2-methylpyrimidin-2-methylpyrimidin-2-methylpyrimidin-3-methylpyrimidin-3-methylpyrimidin-3-methylpyrimidin-3-methylpyrimidin-4-yl)carbonyl-3-[(6-methylamino-2-methylpyrimidin-4-yl)carbonyl-3-[(6-methylamino-2-methylpyrimidin-4-yl)carbonyl-3-[(6-methylamino-2-methylpyrimidin-4-yl)carbonyl-3-[(6-methylamino-2-methylpyrimidin-4-yl)carbonyl-3-[(6-methylpyrimidin-4-yl)carbonyl$ 

4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-

913948-45-5P,

913948-44-4P

phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester 913948-52-4P

4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-propylaminopyrimidin-4-y))carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester 913948-53-5P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-isopropylamino-2-

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phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
ethyl ester
             913948-54-6P.
4-(S)-4-tert-Butoxycarbonyl-2-((6-butylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-55-7P, 4-[(S)-4-tert-Butoxycarbony1-2-[[(6-isobutylamino-2-
phenylpyrimidin-4-v1)carbonyl]amino|butanoyl]piperazine-1-carboxylic acid
              913948-56-8P.
ethyl ester
4-[(S)-4-tert-Butoxycarbony1-2-[[(6-cyclopropylamino-2-phenylpyrimidin-4-
v1)carbonv1laminolbutanov1lpiperazine-1-carboxvlic acid ethvl ester
913948-57-9P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentylamino-
2-phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic
                  913948-58-0P,
acid ethvl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclohexylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-59-1P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-
[[(ethoxycarbonyl)methyl]amino]-2-phenylpyrimidin-4-
vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913948-60-4P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-[(2-
hydroxyethyl)aminol-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-61-5P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-[(2-
ethoxycarbonylethyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-62-6P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(3-
hydroxypropyl)aminol-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913948-63-7P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(3-tert-
butoxycarbonylpropyl)aminol-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
$13948-64-8P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(2-
dimethylaminoethyl)amino]-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913948-65-9P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(3-
dimethylaminopropyl)amino]-2-phenylpyrimidin-4-
vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-66-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[[2-(morpholin-4-
v1)ethv1|amino|-2-phenv1pvrimidin-4-v1|carbonv1|amino|butanov1|piperazine-
                                913948-67-1P,
1-carboxylic acid ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[[3-(morpholin-4-yl)propyl]amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
              913948-68-2P,
4-[(S)-2-[[[6-[(Benzyl)amino]-2-phenylpyrimidin-4-yl]carbonyl]amino]-4-
tert-butoxycarbonylbutanovllpiperazine-1-carboxylic acid ethyl ester
913948-69-3P
               913948-70-6P
                              913948-71-72
913948-72-8P
               913948-73-99,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-phenethylamino-2-phenylpyrimidin-4-
v1)carbonv1laminolbutanov1lpiperazine-1-carboxv1ic acid ethv1 ester
                              913948-76-2P
913948-74-0P
              913948-75-1P
913948-77-3P
               913948-78-49
                              913948-79-59.
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(indan-2-v1)amino]-2-phenylpyrimidin-
4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-80-8P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-dimethylamino-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
              913948-81-99,
ethvl ester
4-[(S)-2-[[[6-(Azetidin-1-y1)-2-phenylpyrimidin-4-y1]carbonyl]amino]-4-
tert-butoxycarbonylbutanoyl]piperazine-1-carboxylic acid ethyl ester
913948-82-0P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[2-pheny1-6-
(pyrrolidin-1-y1)pyrimidin-4-y1]carbony1]amino]butanoy1]piperazine-1-
carboxylic acid ethyl ester
                              913948-83-1P,
4-[(S)-4-tert-Butoxycarbony1-2-[[[2-pheny1-6-(piperidin-1-y1)pyrimidin-4-
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vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913948-84-2P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-
[(butv1)(methv1)aminol-2-phenvlpvrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-85-3P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-
phenylaminopyrimidin-4-v1)carbonyl|amino|butanoyl|piperazine-1-carboxylic
                 913948-86-4P,
acid ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(4-fluorophenyl)amino]-2-
phenylpyrimidin-4-yllcarbonyllaminolbutanoyllpiperazine-1-carboxylic acid
             913948-87-59,
ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-methyl-2-phenylpyrimidin-4-
v1)carbonv1laminolbutanov1lpiperazine-1-carboxvlic acid ethvl ester
913948-88-6P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-isopropyl-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
            913948-89-72,
ethyl ester
4-[4-tert-Butoxycarbonyl-2-[[(6-butyl-2-phenylpyrimidin-4-
v1)carbonv1|amino|butvrv1|piperazine-1-carboxv1ic acid ethv1 ester
913948-90-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-isobutyl-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
ethyl ester
             913948-91-1P.
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopropyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-92-2P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclopentyl-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913948-93-32,
ethyl ester
4-|(S)-4-tert-Butoxycarbonyl-2-|[(2,6-diphenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-94-4P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(o-
tolyl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913948-95-5P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(m-tolyl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913948-96-6P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[2-pheny1-6-(p-
tolvl)pyrimidin-4-vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid
ethyl ester 913948-97-7P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(3-carboxyphenyl)-2-phenylpyrimidin-4-
v1|carbonv1|amino|butanov1|piperazine-1-carboxvlic acid ethv1 ester
913948-98-8P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(4-
carboxyphenyl)-2-phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
                             913948-99-9P,
carboxylic acid ethyl ester
4-(S)-4-tert-Butoxycarbonyl-2-([[2-(4-fluorophenyl)-6-methylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-00-5P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-(3-fluorophenyl)-
6-methylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic
acid ethyl ester 913949-01-6P.
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-(2-fluorophenyl)-6-methylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913949-02-7F, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-(4-chlorophenyl)-
6-methylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic
acid ethvl ester
                  913949-03-82,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-(3-chlorophenyl)-6-methylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-04-9P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[2-(2-chloropheny1)-
6-methylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic
acid ethyl ester
                  913949-05-0P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-methyl-2-(p-tolyl)pyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913949-06-1P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-methyl-2-(m-
tolyl)pyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester 913949-07-2P.
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# 10/595,734 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-(4-methoxyphenyl)-6-methylpyrimidin-4-

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yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-08-3P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[2-(3-
methoxyphenyl)-6-methylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
carboxylic acid ethyl ester
                             913949-09-4P
913949-10-7P
             913949-11-8P
                              913949-12-92
913949-13-0P, 4-((S)-5-tert-Butoxycarbonyl-2-(((6-isopropylamino-2-
phenylpyrimidin-4-v1)carbonyl|amino|pentanoyl|piperazine-1-carboxylic acid
ethyl ester
             913949-14-1P.
4-[(S)-2-[[[6-[(Benzyl)amino]-2-phenylpyrimidin-4-yl]carbonyl]amino]-5-
tert-butoxycarbonylpentanoyl]piperazine-1-carboxylic acid ethyl ester
913949-15-2P, 4-[(S)-5-tert-Butoxycarbonyl-2-[[(2,6-
diphenylpyrimidin-4-yl)carbonyl|amino|pentanoyl|piperazine-1-carboxylic
acid ethyl ester
                  913949-16-3P,
4-[(S)-5-tert-Butoxycarbonyl-2-[[(6-cyclopropyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]pentanoyl]piperazine-1-carboxylic acid ethyl ester
913949-66-3P
             913949-67-4P 913949-68-5P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(isopropyl) (methyl)amino]-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester
             913949-69-69.
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(morpholin-4-yl)-2-phenylpyrimidin-4-
vl]carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-70-9P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-
(thiazolidin-3-yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
carboxvlic acid ethvl ester
                             913949-71-02,
4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(4-hydroxypiperidin-1-y1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
              913949-72-19,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(piperazin-1-yl)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913949-73-2P
              913949-74-39,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(4-hydroxybutyl)amino]-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
             913949-75-4P
                            913949-76-5P
ethvl ester
913949-77-62
               913949-78-72
                              913949-79-82
               913949-81-2P
                              913949-82-3P,
913949-80-1P
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(imidazol-1-yl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-83-4P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-
(pyrazol-1-y1)pyrimidin-4-y1]carbony1]amino]butanoy1]piperazine-1-
carboxvlic acid ethvl ester
                             913949-84-5P
913949-85-6P
              913949-86-7P,
4-((S)-4-tert-Butoxycarbonyl-2-(([6-((2-hydroxy-1,1-dimethylethyl)amino]-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester 913949-87-8P
                            913949-88-92
913949-89-0P
              913949-90-3P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-propylsulfanylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913949-91-4F, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-
isopropylsulfanyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-92-5P, 4-[(S)-4-tert-Butoxycarbony1-2-[[(6-
cyclopentylsulfanyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-93-62
               913949-94-7P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-cyclohexylsulfanyl-2-phenylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913949-95-8P, 4-[(S)-4-tert-Butoxycarbonv1-2-[[6-
[[(ethoxycarbonyl)methyl]sulfanyl]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
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913949-96-9P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-[(2-
ethoxycarbonylethyl)sulfanyl]-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913949-97-0P, 4-[(S)-4-tert-Butoxycarbony1-2-[[(2-pheny1-6-
phenylsulfanylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-
carboxylic acid ethyl ester 913949-98-1P,
4-[(S)-2-[[(6-Benzylsulfanyl-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-tert-
butoxycarbonylbutanovl]piperazine-1-carboxylic acid ethyl ester
913949~99~2F, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-ethynyl-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
              913950-00-29.
ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(3-hydroxyprop-1-ynyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
              913950-01-3P
ethvl ester
                             913950-02-4P
913950-03-5P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(3-hydroxy-3-
methyl-1-butynyl)-2-phenylpyrimidin-4-
vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913950-04-6P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(3-
hydroxypropy1)-2-phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-
                              913950-05-79
carboxylic acid ethyl ester
913950-06-8P
              913950-07-9P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(3-hydroxy-3-methylbutyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913950-08-0P.
ethyl ester
4-[(S)-4-Carboxy-2-[[[6-(4-oxocyclohex-1-enyl)-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913950-09-1P, 4-[(S)-4-Carboxy-2-[[[6-(4-oxocyclohexyl)-2-
phenylpyrimidin-4-vl|carbonyl|amino|butanovl|piperazine-1-carboxylic acid
ethvl ester
            913950-11-5p.
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4-oxocyclohex-1-enyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester 913950-12-6P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4-oxocyclohexyl)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethyl ester
913951-47-0P
              913951-48-1P
                              913951-49-22,
4-[(S)-4-\text{tert-Butoxycarbonyl-}2-[[[6-(4-\text{methoxypiperidin-}1-y1)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
             913951-50-5P
                             913951-51-6P
ethvl ester
               913951-53-8P
913951-52-79
                              913951-54-99
913951-55-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(2-methoxy-1,1-
dimethylethyl)aminol-2-phenylpyrimidin-4-
vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-56-1P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4,5-
dihydropyrazol-1-yl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-57-2P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-methyl-4,5-
dihydroimidazol-1-yl)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913951-58-3P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-
([1,2,4]triazol-1-vl)pvrimidin-4-vl]carbonvl]amino]butanovl]piperazine-1-
carboxylic acid ethyl ester
                             913951-59-42,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(4-methylpyrazol-1-yl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
              913951-60-7P,
ethvl ester
4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(3-methylpyrazo1-1-y1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
              913951-61-8P,
4-[(S)-2-[[[6-(4-Butyl-[1,2,3]triazol-1-yl)-2-phenylpyrimidin-4-
vl]carbonvl]amino]-4-tert-butoxycarbonvlbutanovl]piperazine-1-carboxylic
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acid ethyl ester 913951-62-9P,

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4-[(S)-2-[[(6-Amino-2-phenylpyrimidin-4-v1)carbonyl]amino]-4-tert-
butoxycarbonylbutanoyl]piperazine-1-carboxylic acid ethyl ester
913951-63-0P
              913951-64-1P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(ethylsulfonyl)methyl]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
                              913951-67-4P.
913951-65-2P
               913951-66-3P
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(cyclopentylsulfanyl)methyl]-2-
phenylpyrimidin-4-yllcarbonyllaminolbutanoyllpiperazine-1-carboxylic acid
              913951-68-59,
ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(cyclopentylsulfonyl)methyl]-2-
phenylpyrimidin-4-vl]carbonyl]amino]butanovl]piperazine-1-carboxylic acid
              913951-69-6P,
ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(pyridin-3-yl)pyrimidin-4-
vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-70-9P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-
(pyridin-4-yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
carboxylic acid ethyl ester
                             913951-71-0P.
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(thiazol-2-yl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-72-1P, 4-[(S)-2-[[(6-Acetyl-2-phenylpyrimidin-4-
v1)carbonyl]amino]-4-tert-butoxycarbonylbutanoyl]piperazine-1-carboxylic
                                  913951-74-39
acid ethvl ester
                  913951-73-29
913951-75-4P
              913951-76-52,
4-[(S)-4-\text{tert-Butoxycarbonvl}-2-[([6-(1-\text{hydroxy-l-methylethyl})-2-
phenylpyrimidin-4-vl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
             913951-77-62,
ethvl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-hydroxyethyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-78-7P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-methoxyethyl)-
2-phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic
acid ethyl ester
                 913951-79-89
                                913951-80-1P
               913951-82-3P
913951-81-2P
                              913951-83-4P
913951-84-5P
               913951-85-62,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[2-phenyl-6-(tetrahydropyran-4-
yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
              913951-86-7P
                             913951-87-89,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(1-oxopyridin-3-y1)-2-phenylpyrimidin-
4-vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913951-88-9P
               913951-89-0P
                              913951-90-3P
913951-91-4P
               913951-92-5P
               913951-95-8P
913951-94-72
                              913951-96-92
913951-97-0P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-
trifluoromethylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-
carboxylic acid ethyl ester 913951-98-1P,
4-[(S)-2-[[(6-tert-Butv1-2-phenylpyrimidin-4-v1)carbonyl]amino]-4-(tert-
butyloxycarbonyl)butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-99-2P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-phenoxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
             913952-03-19,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(1-oxopyridin-2-yl)-2-phenylpyrimidin-
4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913952-04-2P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(1-oxopyridin-4-
y1)-2-phenylpyrimidin-4-y1]carbony1]amino]butanoy1]piperazine-1-carboxylic
acid ethyl ester
                  913952-05-3P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-hydroxy-1,1-dimethylethyl)-2-
phenylpyrimidin-4-vl[carbonyl]amino|butanovl[piperazine-1-carboxylic acid
ethvl ester
            913967-11-0P
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RL: FAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); TBU (Therapeutic use); BIOL (Biological

study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (drug candidate; preparation of N-(4-pyrimidinylcarbonyl) amino acid
piperazides and their use as P2Y12 receptor antagonists)

RN 913946-66-4 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913946-67-5 HCAPLUS

CN 1-Piperazinebutanoic acid, β-[[[6-(cyclopentyloxy)-2-phenyl-4pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-γ-oxo-, (βS)(CA INDEX NAME)

Absolute stereochemistry.

RN 913946-68-6 HCAPLUS

CN 1-Piperazinehexanoic acid,  $\delta$ -[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, ( $\delta$ S)- (CA INDEX NAME)

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RN 913946-71-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-4-amino-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1,4-dioxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-72-2 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-{(2S)-5-amino-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1,5-dioxopentyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-73-3 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-amino-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxopropyl]-, ethyl ester, hydrochloride (9CI) (CA INDEX NAME)

■x HC1

RN 913946-76-6 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-hydroxy-1-oxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-30-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2-ethoxy-2-oxoethyl)amino]-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-8-oxo-, (78)-, trifluoroacetate [9CI] (CA INDEX NAME)

CM :

CRN 913947-29-2

CMF C27 H34 N6 O8

RN 913947-34-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(3-ethoxy-3-oxopropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (ys)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM :

CMF C28 H36 N6 O8

- RN 913948-20-6 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(cyclopentyloxy)-2-pheny1-4-

pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, 1,1-dimethylethyl ester, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913948-21-7 HCAPLUS

CN 1-Piperazinebutanoic acid, β-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-γ-oxo-, 1,1-dimethylethyl ester, (βS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913948-22-8 HCAPLUS

CN 1-Piperazinehexanoic acid, δ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (δS)- (CA INDEX NAME)

RN 913948-23-9 HCAPLUS

CN Acetic acid, 2-[(35)-3-[[[6-(cyclopentyloxy)-2-phenyl-4pyrimidinyl]carbonyl]amino]-4-[4-(ethoxycarbonyl)-1-piperazinyl]-4oxobutoxyl-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-24-0 HCAPLUS
- CN Benzoic acid, 4-[(25)-2-[[[6-(cyclopentyloxy)-2-phenyl-4pyrimidinyl]carbonyl]amino]-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3oxopropyl]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-25-1 HCAPLUS
- CN Acetic acid, 2-[4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinylcarbonyl)amino]-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3-oxopropyl]phenoxyl-, methyl ester (CA INDEX NAME)

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- RN 913948-26-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(carboxymethoxy)-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, 1-(1,1-dimethylethyl) ester, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-27-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-y-[[(2-phenyl-6-propoxy-4-pyrimidinyl)carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-28-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(2-

 $\label{eq:local_poly} $$ \ \, \frac{1}{-\delta} - 2-\rho + 2-\rho - 4-\rho \sin(iny) \cdot \cos(iny) \cdot \sin(iny) \cdot \delta - \cos(iny) \cdot \sin(iny) \cdot \delta - \cos(iny) \cdot \sin(iny) \cdot \delta - \cos(iny) \cdot \delta -$ 

Absolute stereochemistry.

- RN 913948-29-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(phenylmethoxy)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-30-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopropylmethoxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

- RN 913948-31-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \[ \][\left\{ \text{(cyclohexyloxy) 2-phenyl 4-pyrimidinyl] carbonyl] aminoj 4-\left\{ \text{(ethoxycarbonyl) \delta \circ \text{oxo-}, } \]
  \( 1, 1-\dimethylethyl \text{ester}, \text{(rS) (CA INDEX NAME)} \)

Absolute stereochemistry.

- RN 913948-32-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1-methylethoxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-33-1 HCAPLUS
- CN 1-Piperazinpentanoic acid, 4-(ethoxycarbonyl)-y-[(6-methoxy-2-phenyl-4-pyrimidinyl)carbonyl]amino]-\(\delta\)-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

RN 913948-34-2 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-3-[3-(2-ethoxy-2-oxoethoxy)phenyl]-1-oxopropyl]-, ethyl ester (CA INDEX NAME)

RN 913948-35-3 HCAPLUS

CN 1-Piperarinecarboxylic acid, 4-[2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-3-[2-(2-ethoxy-2-oxoethoxy)phenyl]-1-oxopropyl]-, ethyl ester (CA INDEX NAME)

RN 913948-36-4 HCAPLUS

CN Acetic acid, 2-[4-[(1S)-1-[[[6-(cyclopentyloxy)-2-phenyl-4pyrimidinyl]carbonyl]amino]-2-[4-(ethoxycarbonyl)-1-piperazinyl]-2oxoethyl]phenoxyl-, ethyl ester (CA INDEX NAME)

- RN 913948-37-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \cdot \[ \] \[ \

Absolute stereochemistry.

- RN 913948-38-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(butoxycarbonyl)-y-[[[6-(yclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

- RN 913948-39-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-

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 $\label{eq:continuity} $$ pyrimidiny1] carbony1] = -1 (2-methy1propoxy) carbony1] - \delta - oxo-, 1,1-dimethy1ethy1 ester, $$ (7S)- (CA INDEX NAME) $$$ 

Absolute stereochemistry.

RN 913948-40-0 HCAPLUS

CN 1-Piperazinepentanoic acid, Y-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-[(2,2-dimethylpropoxy) carbonyl]-8-oxo-, l,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913948-41-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 7-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl[carbonyl]amino]-4-[(1-methylethoxy)carbonyl]-ô-oxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

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RN 913948-42-2 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(2-furanylcarbonyl)-δ-οxο-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-43-3 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]aminoj- $\delta$ -oxo-4-(phenoxycarbonyl)-, 1,1-dimethylethyl ester,  $(\gamma \delta)$  (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-44-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-benzoyl- $\gamma$ -[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, 1,1-dimethylethyl ester, ( $\gamma$ S)- (CA INDEX NAME)

- RN 913948-45-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-oxoc4-[[phenylmethoxy]carbonyl]-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913948-46-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-aco-4-(1-oxobutyl)-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-47-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 7-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-4-(propylsulfonyl)-, 1,1-dimethylethyl ester, (75)- (CA INDEX NAME)

- RN 913948-48-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 7-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]lamino]-4-(ethoxycarbonyl)-2-methyl-8-oxo-, 1,1-d-imethylethyl ester, (78)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-49-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-3-methyl-6-oxo-, 1,1-dimethylethyl sster, (yS)- (CA INDEX NAME)

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CN 1-Piperazinepentanoic acid, Y-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-2,5-dimethyl-8-oxo-, 1,1-dimethylethyl ester, (y5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-51-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(methylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-52-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-\u00f3-oxo-y-[[[2-pheny1-6-(propylamino)-4-pyrimidiny1]carbony1]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-53-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, 1,1-d-imethylethyl ester, (γS)- (CA INDEX NAME)

- RN 913948-54-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(butylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, 1,1-dimethylethyl ester, (ys)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-55-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(2-methylpropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, 1,1-dimethylethyl ester,  $(\gamma \delta)$  (CA INDEX NAME)

- RN 913948-56-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopropylamino)-2-phenyl-4pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-,
  1,1-dimethylethyl ester, (ys)- (CA INDEX NAME)

- RN 913948-57-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopentylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-58-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(cyclohexylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-59-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2-ethoxy-2-oxoethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (y8)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-60-4 HCAPLUS
- CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(2-hydroxyethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, 1,1-dimethylethyl ester,  $(\gamma S)$  (CA INDEX NAME)

#### 10/595.734

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-[(3-ethoxy-3-oxoproy1)] amino]-2-pheny1-4-pyrimidinyl][arbony1] amino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-62-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3-hydroxypropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-d-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-63-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-[[4-(1,1-dimethylethoxy]-4-oxobutyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-ô-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-64-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-[[2-(dimethylamino)ethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]aminol-4-(ethoxycarbonyl)-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-65-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-[[3-(dimethylamino)propyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-66-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[6-[2-(4-morpholinyl)ethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

RN 913948-67-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-[[3-(4-morpholiny)]propy]]amino]-2-pheny1-4-pyrimidiny][carbony1]amino]-ô-oxo-, 1,1-dimethylethyl ester, (75) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-68-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-([phenyl-methyl)amino]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (76)- (CA INDEX NAME)

- RN 913948-69-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-[[(1S)-1-phenylethyl)amino]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-70-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-6-oxo-y-[[[2-phenyl-6-[[(1R)-1-phenylethyl]amino]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-71-7 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-[[(1S)-3-(1,1-dimethylethoxy)-3-oxo-1-phenylpropyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, 1,1-dimethylethyl ester, ( $\gamma$ S)- (CA INDEX NAME)

CN 1-Piperazinepentanoic acid, γ-[[[6-[[(1R)-3-(1,1-dimethylethoxy)-3oxo-1-phenylpropyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4(ethoxycarbonyl)-δ-oxo-, 1,1-dimethylethyl ester, (γS)- (CA
INDEX NAME)

Absolute stereochemistry.

- RN 913948-73-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-6-oxo-y-[[[2-phenyl-6-[(2-phenylethyl)amino]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-74-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\(\tilde{0}\)-oxo-\(\tilde{-}\)-[[[2-phenyl-6-[(2-phenylpropyl)amino]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (\(\tilde{8}\)))- (CA INDEX NAME)

RN 913948-75-1 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-[(1,2-diphenylethy1)amino]-2-phenyl-4-pyrimidiny]lcarbony1]amino]-4-(ethoxycarbony1)-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913948-76-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-oxo-γ-[[[2-pheny1-6-[(2-pheny1cyclopropy1)amino]-4-pyrimidiny1]carbony1]amino]-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913948-77-3 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-[(2,3-dihydro-1H-inden-1-yl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913948-78-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-[[(1R)-2,3-dihydro-1H-inden-1-y1]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913948-79-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-[(2,3-dihydro-1H-inden-2-y1)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, l,1-dimethylethyl ester, (γ5) (CA INDEX NAME)

- RN 913948-80-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(dimethylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-81-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \cdot \[ \[ \] \[ \] \] \[ \] \

Absolute stereochemistry.

- RN 913948-82-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-6-oxo-y-[[[2-phenyl-6-(1-pyrrolidinyl)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (7S)- (CA INDEX NAME)

RN 913948-83-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)- $\delta$ -oxo- $\gamma$ -[[[2-pheny1- $\delta$ -(1-piperidiny1)-4-pyrimidiny1]carbony1]amino]-, 1,1-dimethylethyl ester, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-84-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(butylmethylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-85-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\u00e3-oxo-y-[[[2-phenyl-6-(phenylamino)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (YS)- (CA INDEX NAME)

- RN 913948-86-4 HCAPLUS
- CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(4-fluorophenyl)amino]-2-phenyl-4-pyrimidiny][carbonyl]amino]- $\delta$ -oxo-, 1,1-dimethylethyl ester,  $(\gamma S)$  (CA INDEX NAME)

- RN 913948-87-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[(6-methyl-2-phenyl-4-pyrimidinyl)carbonyl]lamino]- $\delta$ -oxo-, 1,1-dimethylethyl ester, ( $\gamma$ s)- (CA INDEX NAME)

- RN 913948-88-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1-methylethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-89-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 7-[[(6-butyl-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, 1,1-dimethylethyl ester (CA INDEX NAME)

- RN 913948-90-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-(2-methylpropy1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

- RN 913948-91-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[(6-cyclopropy1-2-pheny1-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913948-92-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[(6-cyclopentyl-2-phenyl-4pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-\u00f3-oxo-,
  1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-93-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, ~-[[(2,6-diphenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-ô-oxo-, 1,1-dimethylethyl ester, (76)- (CA INDEX NAME)

#### 10/595.734

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-methylphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-95-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-methylphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-96-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(4-methylphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-,
  1,1-dimethylethyl ester, (\u00bf6)- (CA INDEX NAME)

- RN 913948-97-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(3-carboxypheny1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)-8-oxo-, 1-(1,1-dimethy1ethy1) ester, (y5)- (CA INDEX NAME)

- RN 913948-98-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(4-carboxyphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]mino]-4-(ethoxycarbonyl)-δ-oxo-, 1-(1,1-dimethylethyl) ester, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-99-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[2-(4-fluorophenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-6-oxo-, 1,1-dimethylethyl ester, (7S)- (CA INDEX NAME)

- RN 913949-00-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[2-(3-fluorophenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913949-01-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[2-(2-fluorophenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

- RN 913949-02-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 7-[[[2-(4-chlorophenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (75)- (CA INDEX NAME)

- RN 913949-03-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[2-(3-chlorophenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913949-04-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[2-(2-chlorophenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (y5)- (CA INDEX NAME)

- RN 913949-05-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-methyl-2-(4-methylphenyl)-4-pyrimidinyl]carbonyl]aminol-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913949-06-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-methy1-2-(3-methylpheny1)-4-pyrimidiny1]carbony1]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γ6)- (CA INDEX NAME)

- RN 913949-07-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony))-y-[[[2-(4-methoxyphenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (%5)- (CA INDEX NAME)

RN 913949-08-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[2-(3-methoxyphenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-09-4 HCAPLUS
- CN Benzoic acid, 4-[(28)-3-[4-(ethoxycarbony1)-1-piperaziny1]-2-[[[6-[(1-methylethyl)amino]-2-phenyl-4-pyrimidiny1]carbony1]amino]-3-oxopropy1]-, methyl ester (CA INDEX NAME)

- RN 913949-10-7 HCAPLUS
- CN Benzoic acid, 4-[(25)-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3-oxo-2-[[[2-phenyl-6-[(phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]propyl]-, methyl ester (CA INDEX NAME)

- RN 913949-11-8 HCAPLUS
- CN Benzoic acid, 4-[(2S)-2-[[(2,6-diphenyl-4-pyrimidinyl)carbonyl]amino]-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3-oxopropyl]-, methyl ester (CA INDEX NAME)

- RN 913949-12-9 HCAPLUS
- CN Benzoic acid, 4-[(25)-2-[[(6-cyclopropyl-2-phenyl-4pyrimidinyl)carbonyl]amino]-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3oxopropyl]-, methyl ester (CA INDEX NAME)

- RN 913949-13-0 HCAPLUS
- CN 1-Piperazinehexanoic acid, 4-(ethoxycarbonyl)-8-[[[6-[(1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-oxo-, 1,1-dimethylethyl ester, (88)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-14-1 HCAPLUS
- CN 1-Piperazinehexanoic acid, 4-(ethoxycarbonyl)-e-oxo-ō-[[[2-phenyl-6-[(phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (8s)- (CA INDEX NAME)

- RN 913949-15-2 HCAPLUS
- CN 1-Piperazinehexanoic acid, δ-[[(2,6-diphenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-ε-oxo-, 1,1-dimethylethyl ester, (δS)- (CA INDEX NAME)

- RN 913949-16-3 HCAPLUS
- CN 1-Piperazinehexanoic acid, δ-[[(6-cyclopropyl-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-ε-οxο-, 1,1-dimethylethyl ester, (δ5)- (CA INDEX NAME)

- RN 913949-66-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(12)-3hydroxy-1-buten-1-y1]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

- RN 913949-67-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2-methoxy-1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-68-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[methyl(1-methylthyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

RN 913949-69-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(4-morpholinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-70-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-6-oxo-y-[[[2-phenyl-6-(3-thiazolidinyl)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-71-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(4-hydroxy-1-piperidinyl)-2-phenyl-4-pyrimidinyl]carbonyl]mino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

RN 913949-72-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)- $\delta$ -oxo- $\gamma$ -[[[2-pheny1- $\delta$ -(1-piperaziny1)-4-pyrimidiny1]carbony1]amino]-, 1,1-dimethylethyl ester, (YS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-73-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2-hydroxy-1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913949-74-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[6-[(4-hydroxybutyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

- RN 913949-75-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(2-hydroxypropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, 1,1- $\delta$ -dimethylethyl ester, ( $\gamma$ 5)- (CA INDEX NABLY

Absolute stereochemistry.

- RN 913949-76-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2-phenyl-6-[[(tetrahydro-2-furanyl)methyl]amino]-4pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

RN 913949-77-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2R)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]δ-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-78-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (YS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-79-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(35)-3-hydroxy-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913949-80-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-[(3R)-3-hydroxy-1-pyrrolidiny1]-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, 1,1-dimethy1ethy1 ester, (γs)- (CA INDEX NAME)

- RN 913949-81-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-[[3R)-tetrahydro-3-furanyl]amino]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (y5)- (CA INDEX NAME)

- RN 913949-82-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1H-imidazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913949-83-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-6-oxo-y-[[[2-phenyl-6-(H-pyrazol-1-yl)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-84-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[15]-2-hydroxy-1-methylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913949-85-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[(1R)-2-hydroxy-1-methylethyl]amino]-2-ppenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (y3)- (CA INDEX NAME)

- RN 913949-86-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2-hydroxy-,1-dimethylethyl)amino]-2-phenyl-4-pyrimidinyl|carbonyl]amino]-ôoxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

- RN 913949-87-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxy-1-piperidinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913949-88-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[2-(hydroxymethyl)-1-piperidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-oxo-, 1,1-dimethylethyl ester, (7S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-89-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[6-[(2-hydroxycyclohexyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-90-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-6-oxo-y-[[[2-phenyl-6-(propylthio)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (ys)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-91-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(1-methylethyl)thio]-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-δ-oxo-, 1,1-d-imethylethyl ester, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-92-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopentylthio)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (78)- (CA INDEX NAME)

- RN 913949-93-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2-furanylmethyl)thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

- RN 913949-94-7 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(cyclohexylthio)-2-phenyl-4-pyrimidiny]]carbonyl]maino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester,  $(\gamma S)$  (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-95-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-ethoxy-2-oxoethyl)thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

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- RN 913949-96-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3-ethoxy-3-oxopropyl)thio]-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-97-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(phenylthio)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

- RN 913949-98-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-[(phenylmethyl)thio]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913949-99-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[(6-ethynyl-2-phenyl-4-pyrimidinyl)carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-00-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-(3-hydroxy-1-propyn-1-y1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913950-01-3 HCAPLUS

# 10/595,734

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxy-1-butyn-1-y1)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\(\delta\)-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-02-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxy-1-pentyn-1-y])-2-phenyl-4-pyrimidinyl]carbonyl]aminoj-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-03-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(3-hydroxy-3-methyl-1-butyn-1-γ]]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913950-04-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxypropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913950-05-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxybutyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-06-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxypentyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

# 10/595,734

- RN 913950-07-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(3-hydroxy-3-methylbutyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-d-imethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-08-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-οxο-γ-[[[6-(4-οxο-1-ογιοhexen-1-γ1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-, (γS)- (CA INDEX NAME)

- RN 913950-09-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[[6-(4-oxocyclohexyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, ( $\gamma$ S)- (CA INDEX NAME)

- RN 913950-11-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[6-(4-οxο-1-cyclohexen-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-12-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-ô-oxo-y-[[[6-(4-oxocyclohexyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913951-47-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(3S)-3-methoxy-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-

, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-48-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[(18)-2-methoxy-1-methylethyl]amino]-2-phenyl-4-pyrimidinyl]arbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-49-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(4-methoxy-1-piperidinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

RN 913951-50-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-[(3R)-3-methoxy-1-pyrrolidiny1]-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, 1,1-d-dimethylethyl ester, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-51-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[(1R)-2-methoxy-1-methylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-52-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[2-(methoxymethyl)-1-piperidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]δ-oxo-, 1,1-dimethylethyl ester, (γS) - (CA INDEX NAME)

RN 913951-53-8 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-7-[[[6-[(2S)-2-(methoxymethyl)-1-pyrrollidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]8-oxo-, 1,1-dimethylethyl ester, (7S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-54-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-{(2R)-2-(methoxymethyl)-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]δ-oxo-, 1,1-dimethylethyl ester, (YS)- (CA INDEX NAME)

- RN 913951-55-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[6-[(2-methoxy-1,1-dimethylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (%5) (CA INDEX NAME)

- RN 913951-56-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(4,5-dihydro-lH-pyrazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, 1,1-dimethylethyl ester, (y5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-57-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(4,5-dihydro-2-methyl-1H-imidazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-ô-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

RN 913951-58-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxo-γ-[[[2-phenyl-6-(H-1,2,4-triazol-1-yl)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-59-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(4-methyl-1H-pyrazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-60-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-methyl-1H-pyrazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-, 1,1-dimethylethyl ester, (\u00ba\u00ba)- (\u00ba \u00ba\u00

- RN 913951-61-8 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(4-butyl-1H-1,2,3-triazol-1-y1)-2-phenyl-4-pyrimidinyl]carbonyl]aminol-4-(ethoxycarbonyl)- $\delta$ -oxo-, 1,1-dimethylethyl ester,  $(\gamma S)$  (CA INDEX NAME)

- RN 913951-62-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[(6-amino-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913951-63-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(2,5-dihydro-3-methyl-5-σxo-1H-pyrazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-σxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

RN 913951-64-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(ethylsulfonyl)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-,l,1-dimethylethyl ester, (γs)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-65-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-[(phenylthio)methyl]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-66-3 HCAPLUS

CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-([heny]sulfonyl]methyl]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-67-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-[(cyclopentylthio)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-68-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \) [[[6-[(cyclopentylsulfonyl)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]mino]-4-(ethoxycarbonyl)-\( \frac{0}{0}-\) oxo-, \( 1,1-dimethylethyl ester, \( (\gamma \)) (CA INDEX NAME) \)

- RN 913951-69-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-oxo-γ-[[[2-pheny1-6-(3-pyridiny1)-4-pyrimidiny1]carbony1]amino]-, 1,1-dimethylethyl ester, (γs)- (CA INDEX NAME)

- RN 913951-70-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[2phenyl-6-(4-pyridinyl)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-71-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-8-oxo-y-[[[2-pheny1-6-(2-thiazoly1)-4-pyrimidiny1]carbony1]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

RN 913951-72-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 7-[[(6-acetyl-2-phenyl-4-pyrimidinyl)carbonyl]mino]-4-(ethoxycarbonyl)-\(\tilde{

Absolute stereochemistry.

- RN 913951-73-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1-hydroxyethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-, 1,1-dimethylethyl ester, (ys)- (CA INDEX NAME)

- RN 913951-74-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1-methoxyethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (76)- (CA INDEX NAME)

$$\underset{Ph}{\text{OMe}}$$

RN 913951-75-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-7-[[[6-(1-ethoxyethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (78)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-76-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-(1-hydroxy-1-methylethy1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-8-oxo-, 1,1-dimethylethy1 ester, (y8)- (CA INDEX NAME)

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-hydroxyethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-78-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-methoxyethyl)-2-phenyl-4-pyrimidinyl]\_arbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-79-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-hydroxycyclohexyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913951-80-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[6-(2-methoxycyclohexyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

- RN 913951-81-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-(2-hydroxycylopentyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, 1,1-dimethylethyl ester,  $(\gamma S)$  (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-82-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-hydroxypropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (%5)- (CA INDEX NAME)

- RN 913951-83-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(2-methoxypropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, 1,1-dimethylethyl ester, (%5)- (CA INDEX NAME)

- RN 913951-84-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(3,6-dihydro-2H-pyran-4-y1)-2-phenyl-4-pyrimidinyl]carbonyl]aminoj-4-(ethoxycartbonyl)-8-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913951-85-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-(tetrahydro-2H-pyran-4-yl)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913951-86-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[2-(ethoxycarbonyl)cyclohexyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxο-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-87-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1-oxido-3-pyridinyl)-2-phenyl-4-pyrimidinyl]carbonyl]aminol-\u003-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-88-9 HCAPLUS

CN 3-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-[(1E)-3-ethoxy-3-oxo-1-propen-1-y1]-2-pheny1-4-pyrimidiny1]carbony1]amino]-8-oxo-, 1,1-d-imethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

- RN 913951-89-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-([tetrahydro-2-furanyl)methyl]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-90-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxy-2-methylpropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

RN 913951-91-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(tetrahydro-3-furanyl)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-92-5 HCAPLUS

CN l-Piperazinepentanoic acid, y-[[[6-[(1E)-3-(dimethylamino)-3-oxo-1-propen-1-y1]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, l,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

RN 913951-93-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony))-y-[[[6-(1-hydroxypropy])-2-phenyl-4-pyrimidiny]]carbonyl]amino]-ô-oxo-, 1.1-dimethylethyl ester, (%5)- (CA INDEX NAME)

- RN 913951-94-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(1-hydroxybutyl)-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-δ-oxo-, 1,1-d-dimethylethyl ester, (γS)- (CA INDEX NAME)

- RN 913951-95-8 HCAPLUS
- CN 1-Piperazinepentanośc acid, 4-(ethoxycarbonyl)-y-[[[6-(hydroxyphenylmethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913951-96-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-hydroxy-2-phenylethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

- RN 913951-97-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-6-oxo-y-[[[2-phenyl-6-(trifluoromethyl)-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-98-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(1,1-dimethylethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-99-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[(6-phenoxy-2-phenyl-4-pyrimidinyl)carbonyl]amino]-, 1,1-dimethylethyl ester, (γs)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913952-03-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1-oxido-2-pyridinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\delta-ox-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913952-04-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-(1-oxido-4-pyridinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino] $\delta$ -oxo-, 1,1-dimethylethyl ester, ( $\gamma$ S)- (CA INDEX NAME)

- RN 913952-05-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-(2-hydroxy-1,1-dimethylethy1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913967-11-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(trans-4-hydroxycylohexyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (ys) (CA INDEX NAME)

Absolute stereochemistry.

913946-83-5P

913946-84-6P.

913946~69~7P, 4-[2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4yl)carbonyl]amino]acetyl]piperazine-1-carboxylic acid ethyl ester 913946-70-0P, 4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4yl)carbonyl]amino]-3-methylbutanoyl]piperazine-1-carboxylic acid ethyl 913946-74-4P, 4-[(S)-6-Amino-2-[[(6-cvclopentvloxv-2phenylpyrimidin-4-v1)carbonyl]amino]hexanoyl]piperazine-1-carboxylic acid 913946-75-5P 913946-77-72, ethyl ester 4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-5hydroxypentanoyl]piperazine-1-carboxylic acid ethyl ester 913946-78-8P, 4-[(S)-2-[[(6-Cvclopentvloxy-2-phenylpyrimidin-4yl)carbonyl]amino]-6-hydroxyhexanoyl]piperazine-1-carboxylic acid ethyl ester 913946-79-9P 913946-80-2P 913946-82-4P, 913946-81-3P 4-[(S)-4-(Carboxymethoxy)-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4v1)carbonv1[amino]butanov1[piperazine-1-carboxv1ic acid ethv1 ester

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4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-(1H-
tetrazol-5-yl)butanoyl]piperazine-1-carboxylic acid ethyl ester
913946-85-7P
              913946-86-8P
                             913946-87-92
913946-88-0P, 4-[(S)-4-Carboxy-2-[[(6-carboxymethoxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
            913946-89-1P,
ethyl ester
4-[(S)-4-Carboxy-2-[[(2-phenyl-6-propoxypyrimidin-4-
v1)carbonyl]amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913946-90-4P, 4-1(S)-4-Carboxy-2-1116-(2-hydroxyethoxy)-2-
phenylpyrimidin-4-vl|carbonyl|amino|butanovl|piperazine-1-carboxylic acid
ethyl ester
             913946-91-5P.
4-[(S)-2-[[[6-](Benzyl)oxyl-2-phenylpyrimidin-4-yl]carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913946-92-6P, 4-[(S)-4-Carboxy-2-[[[6-(cyclopropylmethoxy)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethvl ester
             913946-93-78.
4-[(S)-4-Carboxy-2-[[(6-cyclohexyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913946-94-8F, 4-[(S)-4-Carboxy-2-[[(6-isopropoxy-2-phenylpyrimidin-
4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913946-95-9P, 4-[(S)-4-Carboxy-2-[[(6-methoxy-2-phenylpyrimidin-4-
yl)carbonyl|amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913946-96-0P, 4-[3-(3-Carboxymethoxyphenyl)-2-[[(6-cyclopentyloxy-
2-phenylpyrimidin-4-yl)carbonyl|amino|propionyl|piperazine-1-carboxylic
                  913946-97-1P,
acid ethvl ester
4-[3-(2-Carboxymethoxyphenyl)-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]propionyl]piperazine-1-carboxylic acid ethyl ester
913946-98-2P, 4-((S)-2-(4-Carboxymethoxyphenyl)-2-((6-
cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]ethanoyl]piperazine-1-
carboxylic acid ethyl ester
                            913946-99-39,
4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid prop-2-ynyl ester
913947-00-9P, 4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
butyl ester 913947-01-0P,
4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid isobutv1 ester
913947-02-1P, 4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
                          913947-03-2P,
2,2-dimethylpropyl ester
4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid isopropyl ester
913947-04-3P, (S)-4-[[(6-Cvclopentvloxv-2-phenvlpvrimidin-4-
v1)carbonyl|amino|-5-[4-[(furan-2-y1)carbonyl|piperazin-1-y1]-5-
oxopentanoic acid
                  913947-05-4P,
4-[(S)-4-Carboxv-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid phenyl ester
913947-06-5P, (S)-5-(4-Benzovlpiperazin-1-v1)-4-[[(6-
cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-5-oxopentanoic acid
913947-07-6P, 4-[(S)-4-Carboxy-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
benzvl ester
              913947-08-72,
(S)-5-(4-Butyrylpiperazin-1-yl)-4-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
vl)carbonvllaminol-5-oxopentanoic acid
                                        913947-09-8P.
(S)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-y1)carbonyl]amino]-5-oxo-5-
[4-[(propan-1-yl)sulfonyl]piperazin-1-yl]pentanoic acid
913947-10-1P
              913947-11-2P 913947-12-3P
913947-13-4P, 4-[(S)-4-Carboxy-2-[[(6-methylamino-2-
phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
ethyl ester 913947-14-5P
                           913947-15-6P.
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4-[(S)-4-Carboxy-2-[[(2-phenyl-6-propylaminopyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-16-72
              913947-17-8P,
4-[(S)-4-Carboxy-2-[[(6-isopropylamino-2-phenylpyrimidin-4-
vl)carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913947-18-9P 913947-19-0P,
4-[(S)-2-[[(6-Butylamino-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-
carboxybutanovl]piperazine-1-carboxylic acid ethyl ester
913947-20-39
              913947-21-4P.
4-[(S)-4-Carboxy-2-[[(6-isobutylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-22-5P
               913947-23-62,
4-[(S)-4-Carboxy-2-[](6-cyclopropylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
              913947-25-8P,
913947-24-7P
4-[(S)-4-Carboxy-2-[[(6-cyclopentylamino-2-phenylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913947-26-99
             913947-27-09,
4-[(S)-4-Carboxy-2-[[(6-cyclohexylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-28-1P
              913947-29-2P,
4-[(S)-4-Carboxy-2-[[[6-[[(ethoxycarbonyl)methyl]amino]-2-phenylpyrimidin-
4-vllcarbonvllamino|butanovl|piperazine-1-carboxvlic acid ethvl ester
              913947-32-7P
913947-31-6P
                             913947-33-8P,
4-((S)-4-Carboxy-2-()(6-((2-ethoxycarbonylethyl)amino)-2-phenylpyrimidin-4-
v1|carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
               913947-36-1P
                             913947-37-29,
913947-35-0P
4-[(S)-4-Carboxy-2-[[[6-[(3-carboxypropy1)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-38-3P
              913947-39-42,
4-[(S)-4-Carboxy-2-[[[6-[(2-dimethylaminoethyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-40-7P 913947-41-8P,
4-[(S)-4-Carboxy-2-[[[6-[(3-dimethylaminopropyl)amino]-2-phenylpyrimidin-4-
vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-42-92
              913947-43-0P,
4-[(S)-4-Carboxy-2-[[[6-[[2-(morpholin-4-yl)ethyl]amino]-2-phenylpyrimidin-
4-y1]carbony1]amino]butanoy1]piperazine-1-carboxylic acid ethyl ester
913947-44-1P
              913947-45-29,
4-[(S)-4-Carboxy-2-[[[6-[[3-(morpholin-4-yl)propyl]amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913947-46-3P
                            913947-47-49,
4-((S)-2-((6-(Benzyl)amino)-2-phenylpyrimidin-4-yl]carbonyl]amino)-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913947-48-59
              913947-49-6P
                              913947-50-92
913947-51-0P
               913947-52-1P
                              913947-53-2P
913947-54-3P
               913947-55-4P,
4-[(S)-4-Carboxy-2-[[(6-phenethylamino-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-56-5P
             913947-57-69
                             913947-58-79
913947-59-8P
              913947-60-1P
                             913947-61-29
913947-62-3P
              913947-63-4P
                             913947-64-59
913947-65-6P, 4-[(S)-4-Carboxy-2-[[[6-[(indan-2-y1)amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913947-66-7P
                            913947-67-8P,
ethyl ester
4-[(S)-4-Carboxy-2-[[(6-dimethylamino-2-phenylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
              913947-69-0P,
913947-68-9P
4-(S)-2-([6-(Azetidin-1-v1)-2-phenylpyrimidin-4-v1]carbonyl]amino]-4-
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carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester

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913947-70-3P 913947-71-4P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(pyrrolidin-1-yl)pyrimidin-4-
vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913947-72-5P 913947-73-6P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(piperidin-1-yl)pyrimidin-4-
v1|carbony1|amino|butanoy1|piperazine-1-carboxylic acid ethy1 ester
913947-74-79
              913947-75-8P.
4-[(S)-2-[[[6-[(Buty1)(methyl)amino]-2-phenylpyrimidin-4-
v1]carbonv1]amino]-4-carboxybutanov1]piperazine-1-carboxylic acid ethyl
        913947-76-92
                      913947-77-09,
4-[(S)-4-Carboxy-2-[[(2-phenyl-6-phenylaminopyrimidin-4-
vl)carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913947-78-12
              913947-79-22,
4-[(S)-4-Carboxy-2-[[[6-[(4-fluorophenyl)amino]-2-phenylpyrimidin-4-
vl]carbonyl|amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913947-80-5P, 4-[(S)-4-Carboxy-2-[[(6-methyl-2-phenylpyrimidin-4-
vl)carbonyl|amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913947-81-6P, 4-[(S)-4-Carboxy-2-[[(6-isopropyl-2-phenylpyrimidin-
4-v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913947-82-7P, 4-[(S)-2-[[(6-Butyl-2-phenylpyrimidin-4-
yl)carbonyl]amino]-4-carboxybutanoyl]piperazine-1-carboxylic acid ethyl
       913947-83-8P, 4-[(S)-4-Carboxy-2-[[(6-isobuty1-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913947-84-92.
ethyl ester
4-[(S)-4-Carboxy-2-[[(6-cyclopropyl-2-phenylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913947-85-0P, 4-[(S)-4-Carboxy-2-[[(6-cyclopentyl-2-
phenylpyrimidin-4-vl)carbonyl|amino|butanovl|piperazine-1-carboxylic acid
ethyl ester 913947-86-1P,
4-[(S)-4-Carboxv-2-[[(2,6-diphenvlpvrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-87-2P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(o-tolyl)pyrimidin-
4-y1]carbony1]amino|butanoy1]piperazine-1-carboxylic acid ethyl ester
913947-88-3P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(m-tolyl)pyrimidin-
4-y1]carbony1]amino|butanoy1]piperazine-1-carboxylic acid ethyl ester
913947-89-4P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(p-tolyl)pyrimidin-
4-v1]carbonv1|amino|butanov1|piperazine-1-carboxvlic acid ethv1 ester
913947-90-7P, 4-[(S)-4-Carboxy-2-[[[6-(3-carboxyphenyl)-2-
phenylpyrimidin-4-vl|carbonyl|amino|butanovl|piperazine-1-carboxylic acid
             913947-91-89,
ethyl ester
4-[(S)-4-Carboxy-2-[[[6-(4-carboxyphenyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-92-99, 4-[(S)-4-Carboxy-2-[[[2-(4-fluorophenyl)-6-
methylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethvl ester 913947-93-0P.
4-[(S)-4-Carboxv-2-[[[2-(3-fluorophenvl)-6-methylpvrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethyl ester
913947-94-1P, 4-[(S)-4-Carboxy-2-[[[2-(2-fluorophenyl)-6-
methylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913947-95-29,
4-[(S)-4-Carboxy-2-[[[2-(4-chlorophenyl)-6-methylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913947-96-3P, 4-[(S)-4-Carboxy-2-[[[2-(3-chlorophenyl)-6-
methylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
             913947-97-42,
4-[(S)-4-Carboxy-2-[[[2-(2-chlorophenyl)-6-methylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
913947-98-5P, 4-[(S)-4-Carboxy-2-[[[6-methyl-2-(p-tolyl)pyrimidin-
4-vllcarbonvllamino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913947-99-6P, 4-[(S)-4-Carboxy-2-[[[6-methyl-2-(m-tolyl)pyrimidin-
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4-vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913948-00-2P, 4-[(S)-4-Carboxy-2-[[[2-(4-methoxypheny1)-6-
methylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester 913948-01-3P,
4-[(S)-4-Carboxy-2-[[[2-(3-methoxyphenyl)-6-methylpyrimidin-4-
v1|carbony1|amino|butanoy1|piperazine-1-carboxy1ic acid ethy1 ester
913948-02-4P, 4-[2-[[(6-Isopropylamino-2-phenylpyrimidin-4-
v1)carbonyl]amino|acetyl|piperazine-1-carboxylic acid ethyl ester
933948~93~5P, 4-[2-[[[6-[(Benzyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]acetyl]piperazine-1-carboxylic acid ethyl ester
913949-04-6P, 4-[2-[[(2,6-Diphenylpyrimidin-4-
vl)carbonvl|amino|acetvl|piperazine-1-carboxvlic acid ethvl ester
913948-05-79, 4-[2-[[(6-Cyclopropy1-2-phenylpyrimidin-4-
yl)carbonyl]amino]acetyl]piperazine-1-carboxylic acid ethyl ester
913948-06-8P, 4-[(S)-2-[[(6-Isopropylamino-2-phenylpyrimidin-4-
v1)carbonv1[amino]-3-methylbutanov1[piperazine-1-carboxvlic acid ethyl
       913948-07-9P, 4-[(S)-2-[[[6-[(Benzyl)amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]-3-methylbutanoyl]piperazine-1-
carboxylic acid ethyl ester 913948-08-0P,
4-[(S)-2-[[(2,6-Diphenylpyrimidin-4-yl)carbonyl]amino]-3-
methylbutanoyl]piperazine-1-carboxylic acid ethyl ester
913948-09-1P
               913948-10-4P
                             913948-11-5P
913948-12-6P
               913948-13-7P,
4-[(S)-5-Carboxy-2-[[(6-isopropylamino-2-phenylpyrimidin-4-
v1)carbonvllaminolpentanovllpiperazine-1-carboxvlic acid ethyl ester
913948-14-8P, 4-[(S)-2-[[[6-[(Benzyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]-5-carboxypentanoyl]piperazine-1-carboxylic acid ethyl
        913948-15-9P, 4-[(S)-5-Carboxy-2-[[(2,6-
ester
diphenylpyrimidin-4-yl)carbonyl]amino]pentanoyl]piperazine-1-carboxylic
acid ethyl ester 913948-16-0P,
4-[(S)-5-Carboxy-2-[[(6-cyclopropyl-2-phenylpyrimidin-4-
v1)carbonvllaminolpentanovllpiperazine-1-carboxvlic acid ethyl ester
                              913948-19-3P
913948-17-1P
               913948-18-22
913949-17-4P
               913949-18-5P
                              913949-19-62,
4-[(S)-4-Carboxy-2-[[[6-[(isopropy1)(methyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-20-9P
               913949-21-0P,
4-[(S)-4-Carboxy-2-[[[6-(morpholin-4-yl)-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913949-22-1P
               913949-23-2P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(thiazolidin-3-yl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913949-24-3P
              913949-25-49
                            913949-26-59,
4-[(S)-4-Carboxy-2-[[[6-(piperazin-1-yl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
                913949-27-62
                               913949-28-7P,
dihydrochloride
4-[(S)-4-Carboxy-2-[[[6-[(4-hydroxybuty1)amino]-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913949-29-89
              913949-30-1P
                             913949-31-2P
913949-32-3P
               913949-33-4P
                              913949-34-5P
913949-35-6P
              913949-36-7P
                             913949-37-89
913949-38-9P, 4-[(S)-4-Carboxy-2-[[[6-(imidazol-1-yl)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
              913949-39-0P,
ethvl ester
4-[(S)-4-Carboxy-2-[[[2-pheny1-6-(pyrazol-1-yl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
              913949-41-4P
                            913949-42-52,
4-[(S)-4-Carboxy-2-[[[6-[(2-hydroxy-1,1-dimethylethyl)amino]-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
                            913949-44-79
ethyl ester 913949-43-6P
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913949-45-8P 913949-46-9P,
     4-[(S)-4-Carboxy-2-[[(2-phenyl-6-propylsulfanylpyrimidin-4-
    vl)carbonyllamino|butanovl|piperazine-1-carboxylic acid ethyl ester
    913949-47-0P, 4-[(S)-4-Carboxy-2-[[(6-isopropylsulfanyl-2-
    phenylpyrimidin-4-vl)carbonyllaminolbutanovllpiperazine-1-carboxylic acid
                 913949-48-1P,
    ethyl ester
    4-[(S)-4-Carboxy-2-[[(6-cyclopentylsulfanyl-2-phenylpyrimidin-4-
    v1)carbonyl]amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
                   913949-50-5P.
    913949-49-29
    4-[(S)-4-Carboxy-2-[[(6-cyclohexylsulfanyl-2-phenylpyrimidin-4-
    yl)carbonyl]amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
    913949-51-6P, 4-[(S)-4-Carboxy-2-[[[6-
     [[(ethoxycarbonyl)methyl]sulfanyl]-2-phenylpyrimidin-4-
    yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
    913949-52-7P, 4-[(S)-4-Carboxy-2-[[[6-[(2-
    ethoxycarbonylethyl)sulfanyll-2-phenylpyrimidin-4-
    vl]carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
    913949-53-8P, 4-[(S)-4-Carboxy-2-[[[6-[(carboxymethyl)sulfanyl]-2-
    phenylpyrimidin-4-vl|carbonyl|amino|butanovl|piperazine-1-carboxylic acid
    ethvl ester
                  913949-54-9P,
    4-[(S)-4-Carboxy-2-[[[6-[(2-carboxyethyl)sulfanyl]-2-phenylpyrimidin-4-
    yl]carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
    913949-55-0P, 4-[(S)-4-Carboxy-2-[[(2-phenyl-6-
    phenylsulfanylpyrimidin-4-yl)carbonyl[amino]butanoyl[piperazine-1-
                                   913949-56-12,
    carboxvlic acid ethvl ester
     4-[(S)-2-[[(6-Benzylsulfanyl-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-
    carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
    913949-57-2P, 4-[(S)-4-Carboxy-2-[[(6-ethynyl-2-phenylpyrimidin-4-
    yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
    913949-58-3P, 4-[(S)-4-Carboxy-2-[[[6-(3-hydroxyprop-1-vny1)-2-
    phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
    ethvl ester 913949-59-4P
                                913949-60-79
    913949-61-8P, 4-[(S)-4-Carboxy-2-[[[6-(3-hydroxy-3-methyl-1-
    butynyl)-2-phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
    carboxylic acid ethyl ester 913949-62-9P,
    4-[(S)-4-Carboxy-2-[[[6-(3-hydroxypropy1)-2-phenylpyrimidin-4-
    vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
                   913949-64-1P
                                  913949-65-2P,
    4-[(S)-4-Carboxy-2-[[[6-(3-hydroxy-3-methylbutyl)-2-phenylpyrimidin-4-
    yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
                                   913950-14-8P
                   913950-13-7P
    913950-10-4P
    913950-15-92
                   913950-16-0P
                                   913950-17-19,
     4-(S)-4-Carboxy-2-([6-(4-methoxypiperidin-1-vl)-2-phenylpyrimidin-4-
    vl]carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
     913950-18-29
                   913950-19-3P
                                   913950-20-62
    913950-21-7P
913950-24-0P
913950-27-3P
                    913950-22-8P
913950-25-1P
                                   913950-23-9P
913950-26-2P
                    913950-28-4P
                                   913950-29-5P
     913950-30-82
                    913950-31-99
, 4-[(S)-4-Carboxy-2-[[[6-(2-methyl-4,5-dihydroimidazol-1-yl)-2-phenylpyrimidin-
     4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
    913950-32-0P
                    913950-33-1P,
    4-[(S)-4-Carboxy-2-[[[2-phenyl-6-([1,2,4]triazol-1-yl)pyrimidin-4-
    yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
                    913950-35-3P,
    4-[(S)-4-Carboxy-2-[[[6-(4-methylpyrazol-1-y1)-2-phenylpyrimidin-4-
    vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
    913950-36-4P, 4-[(S)-4-Carboxy-2-[[[6-(3-methylpyrazol-1-y1)-2-
    phenylpyrimidin-4-vl|carbonyl|amino|butanovl|piperazine-1-carboxylic acid
    ethyl ester 913950-37-5P.
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4-[(S)-4-Carboxy-2-[[[2-phenyl-6-([1,2,3]triazol-1-yl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-38-6P, 4-[(S)-2-[[[6-(4-Buty1-[1,2,3]triazo1-1-y1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]-4-carboxybutanoyl]piperazine-1-
carboxylic acid ethyl ester 913950-39-7P,
4-[(S)-2-[[(6-Amino-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913950-40-0P
              913950-41-1P,
4-[(S)-4-Carboxy-2-[[[6-[(cyclohexylcarbonyl)amino]-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913950-42-2P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[[(thien-2-
v1)carbonv1|amino|pyrimidin-4-v1|carbonv1|amino|butanov1|piperazine-1-
carboxylic acid ethyl ester 913950-43-3P,
4-[(S)-4-Carboxy-2-[[[6-[[(furan-2-y1)carbony1]amino]-2-phenylpyrimidin-4-
vl]carbonyl|amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913950-44-4P
              913950-45-5P.
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(3-phenylpropionyl)amino]pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-46-6P, 4-[(S)-4-Carboxy-2-[[[6-[(3-
cyclopentylpropionyl)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-47-7P, 4-[(S)-4-Carboxy-2-[[[6-[(2,2-
dimethylpropionyl)amino]-2-phenylpyrimidin-4-
vl]carbonyl]amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913950-48-8P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(2-
propylpentanov1)amino|pyrimidin-4-v1|carbonv1|amino|butanov1|piperazine-1-
                            913950-49-92,
carboxylic acid ethyl ester
4-[(S)-2-[[(6-Benzovlamino-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913950-50-2P 913950-51-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (drug candidate; preparation of N-(4-pyrimidinylcarbonyl) amino acid
   piperazides and their use as P2Y12 receptor antagonists)
913946-69-7 HCAPLUS
```

Ph N O NH CH 2 U N

RN 913946-70-0 HCAPLUS

RN CN

1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-3-methyl-1-oxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

1-Piperazinecarboxylic acid, 4-[2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]acetyl]-, ethyl ester (CA INDEX NAME)

RN 913946-74-4 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-6-amino-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxohexyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-75-5 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-3-hydroxy-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-77-7 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4pyrimidinyl]carbonyl]amino]-5-hydroxy-1-oxopentyl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 913946-78-8 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-hydroxy-1-oxohexyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 913946-79-9 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-(acetylamino)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxopropyl]-, ethyl ester (9C1) (CA INDEX NAME)

Absolute stereochemistry.

RN 913946-80-2 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(28)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-3-[(methoxycarbonyl)amino]-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-81-3 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-3-[(methylsulfonyl)amino]-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-82-4 HCAPLUS
- CN Acetic acid, 2-[(35)-3-[[[6-(cyclopentyloxy)-2-phenyl-4pyrimidinyl]carbonyl]amino]-4-[4-(ethoxycarbonyl)-1-piperazinyl]-4oxobutoxy]- (CA INDEX NAME)

- RN 913946-83-5 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxo-3-(1H-tetrazol-5-yl)propyl]-, ethyl

ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-84-6 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxo-4-(1H-tetrazol-5-yl)butyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-85-7 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]namino]-1-oxo-3-[4-(1H-tetrazol-5-yl)phenyl]propyl]-, ethyl ester (9CI) (CA INDEX NAME)

- RN 913946-86-8 HCAPLUS
- CN Benzoic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4pyrimidinyl[carbonyl]amino]-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3oxopropyl]- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-87-9 HCAPLUS
- CN Acetic acid, 2-[4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3-oxopropyl]phenoxyl- (CA INDEX NAME)

CN 1-Piperazinepentanoic acid, γ-[[[6-(carboxymethoxy)-2-pheny1-4-pyrimidiny]]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γ5)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-89-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-oxo-γ-[[(2-pheny1-6-propoxy-4-pyrimidiny1)carbony1]amino]-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-90-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-hydroxyethoxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913946-91-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-οxο-γ-[[[2-pheny1-6-(phenylmethoxy)-4-pyrimidiny1]carbony1]amino]-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913946-92-6 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopropylmethoxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-93-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclohexyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913946-94-8 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-(1-methylethoxy)-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-95-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[(6-methoxy-2-phenyl-4-pyrimidinyl)carbonyl]amino]-ô-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-96-0 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[3-[3-(carboxymethoxy)phenyl]-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxopropyl]-, 1-ethyl ester (CA INDEX NAME)

RN 913946-97-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[3-[2-(carboxymethoxy)phenyl]-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxopropyl]-, l-ethyl ester (CA INDEX NAME)

- RN 913946-98-2 HCAPLUS
- CN Acetic acid, 2-[4-[(1S)-1-[[[6-(cyclopentyloxy)-2-phenyl-4pyrimidinyl]carbonyl]amino]-2-[4-(ethoxycarbonyl)-1-piperazinyl]-2oxoethyl]phenoxyl- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913946-99-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \[ \] [\left\{ \) [\left\{ \) \copyright\} 2-pheny\] 4-pyrimidiny\] \( \) carbony\] amino\] \( \) \( \) \( \) (2-propyn-1-yloxy\) \( \) carbony\] \( \) \( \) \( \) (CA INDEX NAME) \( \)

RN 913947-00-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(butoxycarbony1)- $\gamma$ -[[[6-(cyclopentyloxy)-2-pheny1-4-pyrimidiny1]carbony1]amino]- $\delta$ -oxo-, ( $\gamma$ 5)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-01-0 HCAPLUS

CN 1-Piperazinepentanoic acid, \( \gamma - \[ \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \] \[

Absolute stereochemistry.

RN 913947-02-1 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-[(2,2-dimethylpropoxy)carbonyl]-8-oxo-, (y6)- (CA INDEX NAME)

- RN 913947-03-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-[(1-methylethoxy)carbonyl]-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-04-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(2-furanylcarbonyl)-δ-οxο-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-05-4 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-4-(phenoxycarbonyl)-, ( $\gamma$ 8)- (CA INDEX NAME)

- RN 913947-06-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-benzoyl- $\gamma$ -[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-07-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 7-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-4-[(phenylmethoxy)carbonyl]-, (75)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-08-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidiny]|carbonyl]amino]-δ-oxo-4-(1-oxobutyl)-, (γS)- (CA INDEX NAME)

RN 913947-09-8 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-4-(propylsulfonyl)-, ( $\gamma$ S)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913947-10-1 HCAPLUS

CN 1-Piperazinepentanoic acid, \( \gamma - \left[ \left[ 6 - (cyclopentyloxy) - 2 - phenyl - 4 - pyrimidinyl]carbonyl]amino] - 4 - (ethoxycarbonyl) - 2 - methyl - \( \delta - \delta \) oxo-, \( \left( \gamma \right) - (CA INDEX NAME) \)

Absolute stereochemistry.

RN 913947-11-2 HCAPLUS

CN 1-Piperazinepentanoic acid, \( \gamma - \left[ (6 - (cyclopentyloxy) - 2 - phenyl - 4 - pyrimidinyl] \( \text{carbonyl} \) amino \( \left[ -4 - (ethoxycarbonyl) - 3 - methyl - \delta - oxo - , \( \gamma \) \( \gamma \) \( \left[ -6 - oxo - , \gamma \) \( \gamma \) \( \gamma \) \( \left[ -6 - oxo - , \gamma \] \( \gamma \) \( \gamma \)

RN 913947-12-3 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl[carbonyl]]amino[-4-(ethoxycarbonyl)-2,5-dimethyl-δ-oxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-13-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(methylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxο-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-14-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(methylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-oxo-, (yS)-, 2,2,2-trifluoroacetate (1:) (CA INDEX NAME)

CM

CRN 913947-13-4

CMF C24 H30 N6 O6

$$\text{MeNH} \longrightarrow \text{HO}_2\text{C}$$

CRN 76-05-1 CMF C2 H F3 O2

RN 913947-15-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-oxo-γ-[[[2-pheny1-6-(propylamino)-4-pyrimidiny1]carbony1]amino]-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-16-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(propylamino)-4-pyrimidinyl]carbonyl]amino]-, (γS)-, 2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-15-6

CMF C26 H34 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

- RN 913947-17-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-18-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-17-8

CMF C26 H34 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

- RN 913947-19-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(butylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxo-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-20-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(butylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-\(\delta\)-\(\gamma\)-\(\delta\)-\(\gamma\

CM 1

CRN 913947-19-0

CMF C27 H36 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

- RN 913947-21-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-[(2-methylpropy1)amino]-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-22-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)- $\gamma$ -[[[6-[(2-methylpropy1)amino]-2-pheny1-4-pyrimidiny1]carbony1]amino]- $\delta$ -oxo-, ( $\gamma$ 5)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 913947-21-4

CMF C27 H36 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

RN 913947-23-6 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopropylamino)-2-phenyl-4pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913947-24-7 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopropylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-23-6

CMF C26 H32 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

RN 913947-25-8 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-(cyclopentylamino)-2-phenyl-4pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (YS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913947-26-9 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-25-8

CMF C28 H36 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

RN 913947-27-0 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-(cyclohexylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-ô-oxo-, (yS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913947-28-1 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclohexylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γ5)-, 2,2,2-trifluoroacetate (1:7) (CA INDEX NAME)

CM 1

CRN 913947-27-0

CMF C29 H38 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

RN 913947-29-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-ethoxy-2-oxoethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-31-6 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-[(carboxymethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, hydrochloride (1:7), (yS)- (CA INDEX NAME)

x HCl

- 913947-32-7 HCAPLUS RN
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2hydroxyethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, hydrochloride (1:?), (γS)- (CA INDEX NAME)

Absolute stereochemistry.

HC1

913947-33-8 HCAPLUS

RN

1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3-ethoxy-3oxopropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, (γS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-35-0 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-[(2-carboxyethyl)amino]-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, hydrochloride, ( $\gamma$ 8)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

HC1

- RN 913947-36-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3-hydroxypropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, hydrochloride (1:?), (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-37-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-[(3-carboxypropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γ5)-(CA INDEX NAME)

RN 913947-38-3 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-[(3-carboxypropy1)amino]-2-phenyl-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)-β-σ-xo-, (γS)-, 2,2,2-trifluoroacetate (1:7) (CA INDEX NAME)

CM

CRN 913947-37-2

CMF C27 H34 N6 O8

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

- RN 913947-39-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 7-[[[6-[[2-(dimethylamino)ethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (78)- (CA INDEX NAME)

RN 913947-40-7 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-[[2-(dimethylamino)ethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM :

CRN 913947-39-4 CMF C27 H37 N7 O6

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

- RN 913947-41-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-[[3-(dimethylamino)propyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γS)- (CA INDEX NAME)

RN 913947-42-9 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-[[3-(dimethylamino)propyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]namino]-4-(ethoxycarbonyl)-δ-οxο-, (γS)-, 2,2,2-trifuoroacetate (1:?) (CA INDEX NAME)

CM

CRN 913947-41-8 CMF C28 H39 N7 O6

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

- RN 913947-43-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[[2-(4-morpholiny])ethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxο-, (γ5)- (CA INDEX NAME)

RN 913947-44-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-[[2-(4-morpholiny1)]ethyl]amino]-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-οxο-, (γ5)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM

CRN 913947-43-0 CMF C29 H39 N7 O7

Absolute stereochemistry.

CM 2

CRN 76-05-1

CMF C2 H F3 O2

- RN 913947-45-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[[3-(4-morpholinyl)propyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

RN 913947-46-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[3-(4-morpholiny)]propyl]amino]-2-phenyl-4-pytimidnyl]carbonyl]amino]-δ-oxo-, (yS)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM :

CRN 913947-45-2

CMF C30 H41 N7 O7

Absolute stereochemistry.

CM 2

CRN 76-05-1

CMF C2 H F3 O2

RN 913947-47-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2phenyl-6-[(phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (γS)-(CA INDEX NAME)

RN 913947-48-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-([phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (yS)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 913947-47-4 CMF C30 H34 N6 O6

Absolute stereochemistry.

CM 2

CRN 76-05-1

CMF C2 H F3 O2

RN 913947-49-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-y-[[[2-phenyl-6-[[(1S)-1-phenylethyl]]amino]-4-pyrimidinyl]carbonyl]amino]-, hydrochloride (1:2), (γS)- (CA INDEX NAME)

●x HCl

- RN 913947-50-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2-phenyl-6-[[(1R)-1-phenylethyl]amino]-4-pyrimiddinyl]carbonyl]amino]-, hydrochloride (1:?), (γS)- (CA INDEX NAME)

Absolute stereochemistry.

●x HCl

- RN 913947-51-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-[[(1S)-2-carboxy-1phenylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-52-1 HCAPLUS

- CN 1-Piperazinepentanoic acid, y-[[[6-[[(1S)-2-carboxy-1-phenylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (yS)-, formate (9CI) (CA INDEX NAME)
  - CM

CRN 913947-51-0 CMF C32 H36 N6 O8

Absolute stereochemistry.

- CM 2
- CRN 64-18-6 CMF C H2 O2
- O\_\_\_CH\_OH
- RN 913947-53-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 7-[[[6-[[(1R)-2-carboxy-1-phenylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (yS)- (CA INDEX NAME)

- RN 913947-54-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-[[(IR)-2-carboxy-1-phenylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (yS)-, formate (9CI) (CA INDEX NAME)

CRN 913947-53-2 CMF C32 H36 N6 O8

Absolute stereochemistry.

CM 2

CRN 64-18-6 CMF C H2 O2

о\_\_\_сн\_он

RN 913947-55-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-[(2-phenylethyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-56-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-pipenyl-6-([2-pienyl-thyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (γS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-55-4 CMF C31 H36 N6 O6

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

- RN 913947-57-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-((2-phenyl)propyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (%)- (CA INDEX NAME)

#### Absolute stereochemistry.

- RN 913947-58-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-6-oxo-y-[[[2-phenyl-6-[(2-phenylpropyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (YS)-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913947-57-6 CMF C32 H38 N6 O6

Absolute stereochemistry.

CM 2

CRN 64-18-6 CMF C H2 O2

O = CH - OH

- RN 913947-59-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-[(1,2-diphenylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-60-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-[(1,2-diphenylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (yS)-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913947-59-8

CMF C37 H40 N6 O6

CM :

CRN 64-18-6 CMF C H2 O2

O==CH=OH

RN 913947-61-2 HCAPLUS

CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[[2-phenyl-6-[(2-phenylcyclopropyl)amino]-4-pyrimidinyl]carbonyl]amino]-,  $(\gamma S)$ - (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-62-3 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[6-[(2,3-dihydro-lH-inden-1-yl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, hydrochloride (1:?), (yS)- (CA INDEX NAME)

RN 913947-63-4 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-[[(1R)-2,3-dihydro-1H-inden-1-yl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-64-5 HCAPLUS

CN 1-Piperazinepentanoic acid, \( \gamma - \[ \][(6-[[(1R)-2,3-\)dihydro-1H-\)inden-1-\) \( \gamma \] \( \gamma \) \( \gamma \] \( \gamma \] \( \gamma \] \( \gamma \] \( \gamma \) \( \gamma \] \( \gamma \] \( \gamma \] \( \gamma \] \( \gamma \) \( \gamma \] \( \gamma \) \( \gamma \] \( \gamma \) \( \gamma \] \( \gamma \) \( \gam

CM

CRN 913947-63-4 CMF C32 H36 N6 O6

CRN 64-18-6 CMF C H2 O2

O== CH= OH

RN 913947-65-6 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-[(2,3-dihydro-1H-inden-2-yl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)δ-oxo-, (y5)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-66-7 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-[(2,3-dihydro-lH-inden-2yl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (y8)-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913947-65-6

CMF C32 H36 N6 O6

Absolute stereochemistry.

CM 2

CRN 64-18-6 CMF C H2 O2

O==CB-OB

RN 913947-67-8 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(dimethylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-68-9 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(dimethylamino)-2-pheny1-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)-, 2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-67-8

CMF C25 H32 N6 O6

Absolute stereochemistry.

CM 2

CRN 76-05-1

CMF C2 H F3 O2

RN 913947-69-0 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(1-azetidiny1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)-δ-oxo-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913947-70-3 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-(1-azetidiny1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)-6-oxo-, (yS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-69-0

CMF C26 H32 N6 O6

Absolute stereochemistry.

CM 2

CRN 76-05-1

CMF C2 H F3 O2

RN 913947-71-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[[2-phenyl-6-(1-pyrrolidinyl)-4-pyrimidinyl]carbonyl]amino]-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-72-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(1-pyrrolidinyl)-4-pyrimidinyl]carbonyl]amino]-, (γS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-71-4 CMF C27 H34 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

F\_ CO2H

RN 913947-73-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-(1-piperidinyl)-4-pyrimidinyl]carbonyl]amino]-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-74-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-6-oxo-y-[[[2pheny1-6-(1-piperidiny1)-4-pyrimidiny1]carbony1]amino]-, (yS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-73-6 CMF C28 H36 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

F\_ C\_ CO2H

RN 913947-75-8 HCAPLUS

CN 1-Piperazinepentanoic acid, \( \gamma -[[[6-(butylmethylamino) - 2-phenyl-4-pyrimidinyl]carbonyl]amino] - 4-(ethoxycarbonyl) - \( \delta - \omega - \tau \) (\( \ta \) \) INDEX NAME:

Absolute stereochemistry.

RN 913947-76-9 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(butylmethylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-75-8 CMF C28 H38 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

RN 913947-77-0 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-oxo-γ-[[[2-pheny1-6-(pheny1amino)-4-pyrimidiny1]carbony1]amino]-, (γS)- (CA INDEX NAME)

# Absolute stereochemistry.

RN 913947-78-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(phenylamino)-4-pyrimidinyl]carbonyl]amino]-, (γS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913947-77-0 CMF C29 H32 N6 O6

CRN 76-05-1 CMF C2 H F3 O2

F\_ CO2H

RN 913947-79-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(4-fluorophenyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-,  $(\gamma S)$ - (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-80-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[(6-methyl-2phenyl-4-pyrimidinyl)carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-81-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(1-methyltethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, (γ5)- (CA INDEX NAME)

- RN 913947-82-7 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[(6-butyl-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-83-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(2-methylpropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, (γs)- (CA INDEX NAME)

- RN 913947-84-9 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[(6-cyclopropy1-2-pheny1-4-pyrimidiny1)carbony1]amino]-4-(ethoxycarbony1)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

RN 913947-85-0 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[(6-cyclopenty1-2-pheny1-4-pyrimiddiny1)carbony1]amino]-4-(ethoxycarbony1)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-86-1 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[(2,6-diphenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

- RN 913947-87-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(2-methylphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

- RN 913947-88-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(3-methylphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-89-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(4-methylphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

- RN 913947-90-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(3-carboxypheny1)-2-pheny1-4-pyrimidiny]]carbonyl]amino]-4-(ethoxycarbonyl)-\(\delta\)-xo-, (yS)-(CA INDEX NAME)

- RN 913947-91-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(4-carboxypheny1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)-δ-oxo-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-92-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[2-(4-fluorophenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

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CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[2-(3-fluorophenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-94-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[2-(2-fluorophenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-6-oxo-, (yS) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913947-95-2 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[2-(4-chloropheny1)-6-methyl-4-pyrimiddinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

- RN 913947-96-3 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[2-(3-chloropheny1)-6-methy1-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

- RN 913947-97-4 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma = [[2-(2-\text{chloropheny1})-6-\text{methyl}-4-\text{pyrimidinyl}]\text{carbonyl}]\text{amino}]-4-(\text{ethoxycarbonyl})-\delta-\text{oxo}-, (\gamma S)-(CA INDEX NAME)$

RN 913947-98-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-methyl-2-(4-methylphenyl)-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913947-99-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-methyl-2-(3-methyl)phenyl)-4-pyrimidinyl]carbonyl]amino]-8-oxo-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913948-00-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[2-(4-methoxyphenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-\(\delta\)-0-xo-, (YS)- (CA INDEX NAME)

- RN 913948-01-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-7-[[[2-(3-methoxyphenyl)-6-methyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (YS)- (CA INDEX NAME)

- RN 913948-02-4 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[2-[[[6-[(1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]acetyl]-, ethyl ester (CA INDEX NAME)

- RN 913948-03-5 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[2-[[[2-phenyl-6-[(phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]acetyl]-, ethyl ester (CA INDEX NAME)

- RN 913948-04-6 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[2-[[(2,6-diphenyl-4-pyrimidinyl)carbonyl]amino]acetyl]-, ethyl ester (CA INDEX NAME)

- RN 913948-05-7 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[2-[[(6-cyclopropyl-2-phenyl-4-pyrimidinyl)carbonyl]amino]acetyl]-, ethyl ester (CA INDEX NAME)

- RN 913948-06-8 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(25)-3-methyl-2-[[[6-[(1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxobutyl]-, ethyl ester (951) (CA INDEX NAME)

- RN 913948-07-9 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-methyl-1-oxo-2-[[[2-phenyl-6-[(phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]butyl]-, ethyl ester

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-08-0 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[(2,6-diphenyl-4-pyrimidinyl)carbonyl]amino]-3-methyl-1-oxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-09-1 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-(4-carboxyphenyl)-2-[[[6-[(1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxopropyl]-,
  1-ethyl ester (CA INDEX NAME)

- RN 913948-10-4 HCAPLUS

INDEX NAME)

Absolute stereochemistry.

RN 913948-11-5 HCAPLUS

CN Benzoic acid, 4-[(2S)-2-[[(2,6-diphenyl-4-pyrimidinyl)carbonyl]amino]-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3-oxopropyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 913948-12-6 HCAPLUS

CN Benzoic acid, 4-[(2S)-2-[[(6-cyclopropyl-2-phenyl-4pyrimidinyl)carbonyl]amino]-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3oxopropyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 913948-13-7 HCAPLUS

CN 1-Piperazinehexanoic acid, 4-(ethoxycarbonyl)- $\delta$ -[[[6-[(1-

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methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\epsilon$ -oxo-, ( $\delta$ S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-14-8 HCAPLUS
- CN 1-Piperazinehexanoic acid, 4-(ethoxycarbonyl)-6-oxo-8-[[[2-phenyl-6-[(phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (ôS)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-15-9 HCAPLUS
- CN 1-Piperazinehexanoic acid,  $\delta$ -[[(2,6-diphenyl-4-pyrimiddinyl)carbonyl]amino]-4-(ethoxycarbonyl)- $\epsilon$ -oxo-, ( $\delta$ S)- (CA INDEX NAME)

- RN 913948-16-0 HCAPLUS
- CN 1-Piperazinehexanoic acid,  $\delta$ -[[(6-cyclopropy1-2-pheny1-4-

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pyrimidiny1)carbony1]amino]-4-(ethoxycarbony1)- $\epsilon$ -oxo-, ( $\delta$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913948-17-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-4-amino-1,4-dioxo-2-[[[2-phenyl-6-((phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]butyl]-, ethyl ester (9C1) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913948-18-2 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-1-oxo-2-[[[2-phenyl-6-[(phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]-3-(1H-tetrazol-5yl)propyl]-, ethyl ester (9C1) (CA INDEX NAME)

RN 913948-19-3 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-(4-hydroxyphenyl)-2-[[[6-[(1methylethyl)amino]-2-phenyl1-4-pyrimidinyl]carbonyl]amino]-1-oxopropyl]-, ethyl ester (9C1) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-17-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2-methoxy-1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, (y5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-18-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2-methoxy-1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-5-oxo-, (yS)-, formate (9CI) (CA INDEX NAME)

CM

CRN 913949-17-4 CMF C27 H36 N6 O7

CRN 64-18-6 CMF C H2 O2

O== CH-OH

RN 913949-19-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[methyl(1-methylethyl) amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-20-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-[methy1(1-methylethy1)amino]-2-pheny1-4-pyrimidiny1]carbony1]amino]-8-oxo-, (yS)-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913949-19-6

CMF C27 H36 N6 O6

CRN 64-18-6 CMF C H2 O2

O== CH-OH

RN 913949-21-0 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(4-morpholinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-22-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(4-morpholinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, (γS)-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913949-21-0

CMF C27 H34 N6 O7

CRN 64-18-6 CMF C H2 O2

O== CH-OH

RN 913949-23-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(3-thiazolidinyl)-4-pyrimidinyl]carbonyl]amino]-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913949-24-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2-phenyl-6-(3-thiazoliddinyl)-4-pyrimidinyl]carbonyl]amino]-, (γS)-, formate (9CI) (CA INDEX NAME)

CM I

CRN 913949-23-2

CMF C26 H32 N6 O6 S

CRN 64-18-6 CMF C H2 O2

O== CH-OH

- RN 913949-25-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(4-hydroxy-1-piperidinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, hydrochloride (1:?), (y5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-26-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-(1-piperazinyl)-4-pyrimidinyl]carbonyl]amino]-, hydrochloride (1:2), (%)- (CA INDEX NAME)

- RN 913949-27-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-hydroxy-1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, hydrochloride (1:?), (γ5). (CA INDEX NAME)

- ●x HCl
- RN 913949-28-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(4-hydroxybutyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-29-8 HCAPLUS

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CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-hydroxypropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

$$\mathsf{Me} \overset{\mathsf{OH}}{\longleftarrow} \mathsf{Ho}_{2} \mathsf{C} \overset{\mathsf{OB}}{\longleftarrow} \mathsf{C} \mathsf{Et}$$

- RN 913949-30-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-[[(tetrahydro-2-furanyl)methyl]amino]-4-pyrimidinyl]carbonyl]amino]-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-31-2 HCAPLUS
- CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\(\delta\-0xo-\gamma\-(\pi\)-\(\delta\-0xo-\gamma\-0xo-\gamma\-(\pi\)-\(\delta\-0xo-\gamma\-0xo-\gamma\-(\pi\)-\(\delta\-0xo-\gamma\-0xo-\ga

CM

CRN 913949-30-1

CMF C28 H36 N6 O7

CRN 64-18-6 CMF C H2 O2

O== CH-OH

RN 913949-32-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2R)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-33-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (y\$)- (CA INDEX NAME)

- RN 913949-34-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-[(3S)-3-hydroxy-1-pyrrolidiny1]-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

- RN 913949-35-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3R)-3-hydroxy-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

RN 913949-36-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-[[3R)-tetrahydro-3-furanyl]amino]-4-pyrimidinyl]carbonyl]amino]-, (y5)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-37-8 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-[[3R)-tetrahydro-3-furanyl]amino]-4-pyrimidinyl]carbonyl]amino]-, (y5)-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913949-36-7 CMF C27 H34 N6 O7

Absolute stereochemistry.

CM 2

CRN 64-18-6 CMF C H2 O2

O == C H = O H

RN 913949-38-9 HCAPLUS

CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-(lH-imidazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-39-0 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(1H-pyrazol-1-yl)-4-pyrimidinyl]carbonyl]amino]-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913949-40-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[(1S)-2-hydroxy-1-methylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

- RN 913949-41-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[[(1R)-2-hydroxy-1-methylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

- RN 913949-42-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-hydroxy-1,1-dimethylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxο-, (γ6)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-43-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxy-1-piperidinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (ys)- (CA INDEX NAME)

RN 913949-44-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-[2-(hydroxymethy1)-1-piperidiny1]-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, (vS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-45-8 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-hydroxycyclohexyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-46-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(propylthio)-4-pyrimidinyl]carbonyl]amino]-, (γS)- (CA INDEX NAME)

RN 913949-47-0 HCAPLUS

CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-7-[[[6-[(1-methylethyl)thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-48-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \[ \][[6-(cyclopentylthio) 2-phenyl 4-pyrimidinyl]carbonyl]amino] 4-(ethoxycarbonyl) \( \frac{3}{6} \text{ox} \( \frac{7}{6} \text{ox

Absolute stereochemistry.

- RN 913949-49-2 HCAPLUS
- CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(2-furanylmethyl)thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

RN 913949-50-5 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(cyclohexylthio)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913949-51-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-ethoxy-2-oxoethyl)thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-52-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3-ethoxy-3-oxopropyl)thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

- RN 913949-53-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \[ \[ \[ \] \[ \] \] \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \] \[ \

- RN 913949-54-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-[(2-carboxyethyl)thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-55-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(phenylthio)-4-pyrimidinyl]carbonyl]amino]-, (γS)- (CA INDEX NAME)

RN 913949-56-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\delta-oxo-y-[[[2-phenyl-6-([phenylmethyl)thio]-4-pyrimidinyl]carbonyl]amino]-, (\gamma)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-57-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\gamma-[[(6-ethynyl-2-phenyl-4-pyrimidinyl)carbonyl]amino]-\delta-oxo-, (\gammaS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913949-58-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(3-hydroxy-1-propyn-1-y])-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

- RN 913949-59-4 HCAPLUS
- CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-(3-hydroxy-1-butyn-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

- RN 913949-60-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxy-1-pentyn-1-y1)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-61-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-Y-[[[6-(3-hydroxy-3-methyl-1-butyn-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

RN 913949-62-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\(\gamma\)-\(\frac{1}{6}\)-(3-hydroxypropyl)-\(\frac{2}{2}\)-henyl-4-pyrimidinyl]carbonyl]amino]-\(\frac{\partial}{6}\)-oxo-, (\(\gamma\))- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-63-0 HCAPLUS
- CN 1-Piperazinepentancic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-hydroxybutyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913949-64-1 HCAPLUS
- CN 1-Piperazinepentancic acid, 4-(ethoxycarbonyl)-\(\gamma\)-[[[6-(3-hydroxypentyl)-2-phenyl-4-pyrimidinyl]carbonyl]aminoj-\(\delta\)-\(\delta\)-(CA \(\text{NDEX NAME}\)\)

- RN 913949-65-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-(3-hydroxy-3-methylbutyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, (y5)- (CA INDEX NAME)

- RN 913950-10-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-7-[[[6-(4-hydroxy-1-cyclohexen-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-13-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(3S)-3-methoxy-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxο-, (%)- (CA INDEX NAME)

RN 913950-14-8 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3S)-3-methoxy-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (yS)-, formate (9CI) (CA INDEX NAME)

CM

CRN 913950-13-7

CMF C28 H36 N6 O7

Absolute stereochemistry.

CM 2

CRN 64-18-6

CMF C H2 O2

O== CH= OH

RN 913950-15-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[[(1S)-2-

 $\label{eq:local_method} $$ \mbox{methoxy-1-methylethyl]amino} = 2-phenyl-4-pyrimidinyl]$$ \mbox{carbonyl]amino} = \delta-oxo-, (\gamma S) - (CA INDEX NAME)$ 

Absolute stereochemistry.

RN 913950-16-0 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[(1S)-2-methoxy-1-methylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913950-15-9 CMF C27 H36 N6 O7

Absolute stereochemistry.

CM 2

CRN 64-18-6 CMF C H2 O2

O== CH-OH

RN 913950-17-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(4-methoxy-1-piperidinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-, (yS)- (CA INDEX NAME)

RN 913950-18-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(4-methoxy-1-piperidinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)-, formate (9C1) (CA INDEX NAME)

CM :

CRN 913950-17-1

CMF C29 H38 N6 O7

Absolute stereochemistry.

CM 2

CRN 64-18-6

CMF C H2 O2

O=== CH = OH

RN 913950-19-3 HCAPLUS

CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(3R)-3-methoxy-l-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

# 10/595,734

RN 913950-20-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-[(3R)-3-methoxy-1-pyrrolidiny1]-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, (γS)-, formate (9CI) (CA INDEX NAME)

CM

CRN 913950-19-3

CMF C28 H36 N6 O7

# Absolute stereochemistry.

CM 2

CRN 64-18-6

CMF C H2 O2

O== CH= OH

RN 913950-21-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[[(1R)-2-

 $\label{eq:local_method} $$ \mbox{methoxy-1-methylethyl]amino} = 2-phenyl-4-pyrimidinyl]$$ \mbox{carbonyl]amino} = \delta-oxo-, (\gamma S) - (CA INDEX NAME)$ 

Absolute stereochemistry.

RN 913950-22-8 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[(1R)-2-methoxy-1-methylethyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913950-21-7 CMF C27 H36 N6 O7

Absolute stereochemistry.

CM 2

CRN 64-18-6 CMF C H2 O2

O== CH= OH

RN 913950-23-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[2-(methoxymethyl)-l-piperidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (y8)- (CA INDEX NAME)

RN 913950-24-0 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[2-(methoxymethyl)-1-piperidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (y8)-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913950-23-9

CMF C30 H40 N6 O7

Absolute stereochemistry.

CM 2

CRN 64-18-6

CMF C H2 O2

O== CH - OH

RN 913950-25-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony.)-y-[[[6-[(2S)-2-(methoxymethyl)-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- δ-oxo-, (yS)- (CA INDEX NAME)

# 10/595,734

RN 913950-26-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2S)-2-(methoxymethyl)-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]δ-oxo-, (yS)-, formate (9CI) (CA INDEX NAME)

CM

CRN 913950-25-1

CMF C29 H38 N6 O7

### Absolute stereochemistry.

CM 2

CRN 64-18-6

CMF C H2 O2

O=== CH - OH

RN 913950-27-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2R)-2-(methoxymethyl)-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

RN 913950-28-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2R)-2-(methoxymethyl)-1-pyrrolidinyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (y\$)-, formate (9C1) (CA INDEX NAME)

CM

CRN 913950-27-3 CMF C29 H38 N6 O7

Absolute stereochemistry.

CM 2

CRN 64-18-6 CMF C H2 O2

о=== он == он

RN 913950-29-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-[(2-methoxy-1,1-dimethylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, hydrochloride (1:7), (ys)- (CA INDEX NAME)

RN 913950-30-8 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-(4,5-dihydro-lH-pyrazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, hydrochloride (1:?), (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913950-31-9 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-(4,5-dihydro-2-methyl-1H-imidazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-0xo-, (y5)- (CA INDEX NAME)

RN 913950-32-0 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-(4,5-dihydro-2-methyl-1H-imidazol-1-yl)-2-phenyl-4-pyrimidinyl|carbonyl|amino|-4-(ethoxycarbonyl)-δ-oxo-, (y6)-, formate (9GI) (CA INDEX NAME)

CM 1

CRN 913950-31-9 CMF C27 H33 N7 O6

Absolute stereochemistry.

CM 2

CRN 64-18-6 CMF C H2 O2

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RN 913950-33-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(H-1),2,4-triazol-1-yl)-4-pyrimidinyl]carbonyl]amino]-, (γS)- (CA INDEX NAME)

- RN 913950-34-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[[2-

# 10/595,734

phenyl-6-(1H-1,2,4-triazol-1-yl)-4-pyrimidinyl]carbonyl]amino]-,  $(\gamma S)$ -, formate (9CI) (CA INDEX NAME)

CM 1

CRN 913950-33-1

CMF C25 H28 N8 O6

Absolute stereochemistry.

CM :

CRN 64-18-6 CMF C H2 O2

O== CH= OH

- RN 913950-35-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(4-methyl-1H-pyrazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, (γS)- (CA INDEX NAME)

- RN 913950-36-4 HCAPLUS
- CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\(\gamma\)-[[[6-(3-methyl-1H-pyrazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\(\delta\)-\(\sigma\)- (CA INDEX NAME)

- RN 913950-37-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2-phenyl-6-(1H-1,2,3-triazol-1-yl)-4-pyrimidinyl]carbonyl]amino]-, (%9)- (CA INBEX NAME)

Absolute stereochemistry.

- RN 913950-38-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(4-butyl-1H-1,2,3-triazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γS)- (CA INDEX NAME)

- RN 913950-39-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[(6-amino-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γS)-(CA INDEX NAME)

RN 913950-40-0 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[(6-amino-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-ô-oxo-, (γS)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 913950-39-7

CMF C23 H28 N6 O6

Absolute stereochemistry.

CM 2

CRN 76-05-1

CMF C2 H F3 O2

- RN 913950-41-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-[(cyclohexylcarbonyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (yS)- (CA INDEX NAME)

- RN 913950-42-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\delta-oxo-\frac{1}{12-} phenyl-\delta-(2-thienylcarbonyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (\delta) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-43-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-furanylcarbonyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxο-(γ(5)-(CA INDEX NAME)

- RN 913950-44-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\(\tilde{\ti

- RN 913950-45-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[6-[(1-oxo-3-phenylpropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, [(S) - (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-46-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, y=[[[6-[(3-cyclopenty]-1- oxopropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- δ-oxo-, (y5)- (CA INDEX NAME)

- RN 913950-47-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \left[ \left[ \left( 2, 2 \dimethy 1 1 \operazine \text{poptpy} 1 \right) \) amino \right] 2-pheny \right( 1 \text{poptpy} 1 \text{arbony} 1 \right) \right( 2 \text{poptpy} 1 \text{arbony} 1 \text{arbony

RN 913950-48-8 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[6-[(1-oxo-2-propylpentyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913950-49-9 HCAPLUS

CN 1-Piperazinepentanoic acid, \( \gamma = \left[[6-(benzoylamino) - 2-phenyl - 4-\)
pyrimidinyl|carbonyl|amino| - 4-(ethoxycarbonyl) - \( \frac{\dagger}{\dagger} \)
(CA INDEX NAME)

Absolute stereochemistry.

RN 913950-50-2 HCAPLUS

CN l-Piperazinepentanoic acid, \( \gamma - \left[ \left[ 6 - \left[ 6 - \left[ 6 - \left[ 6 - \left] \right] \right] \right] \) amino] -2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-\( \delta \)-\( \text{CA} \) INDEX NAME) \)

- RN 913950-51-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(2-methoxyacetyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, (%)- (CA INDEX NAME)

Absolute stereochemistry.

913950-52-4P, 4-[(S)-4-Carboxy-2-[[[6-[(cvclobutylcarbonyl)aminol-2-phenylpyrimidin-4vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester 913950-53-5P, 4-[(S)-4-Carboxy-2-[[[6-[(cyclopentylcarbonyl)amino]-2-phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester 913950-54-62, 4-[(S)-4-Carboxv-2-[[(6-pentanovlamino-2-phenvlpvrimidin-4yl)carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester 913950-55-7P 913950-56-8P, 4-[(S)-4-Carboxy-2-[[[6-[(cyclopropylcarbonyl)amino]-2-phenylpyrimidin-4yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester 913950-57-9P, 4-[(S)-2-[[(6-Acetylamino-2-phenylpyrimidin-4yl)carbonyl]amino]-4-carboxybutanoyl]piperazine-1-carboxylic acid ethyl 913950-58-0P, 4-[(S)-2-[[(6-Butyrylamino-2ester phenylpyrimidin-4-yl)carbonyl]amino]-4-carboxybutanoyl]piperazine-1carboxylic acid ethyl ester 913950-59-19, 4-[(S)-4-Carboxy-2-[[(6-isobutanoylamino-2-phenylpyrimidin-4yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester 913950-60-4P, 4-[(S)-4-Carboxy-2-[[(2-phenyl-6propionylaminopyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1carboxylic acid ethyl ester 913950-61-59, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[[(propan-1-y1)sulfonyl]amino]pyrimidin-4vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester 913950-62-6P, 4-[(S)-4-Carboxy-2-[[[6-[(ethylsulfonyl)amino]-2phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid

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ethvl ester 913950-63-7P,
4-[(S)-2-[[(6-[[(Phenyl)sulfonyl]amino]-2-phenylpyrimidin-4-
v1)carbonvllaminol-4-carboxvbutanovllpiperazine-1-carboxvlic acid ethvl
ester 913950-64-8P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[[(propan-
2-yl)sulfonyl]amino]pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-
carboxylic acid ethyl ester 913950-65-9P,
4-[(S)-4-Carboxy-2-[[[6-(4-oxo-4H-pyridin-1-y1)-2-phenylpyrimidin-4-
v1]carbony1]amino|butanoy1|piperazine-1-carboxy1ic acid ethy1 ester
913950~66~9F, 4-[(S)-4-Carboxy-2-[[[6-(3-methyl-5-oxo-2.5-
dihvdropvrazol-1-v1)-2-phenvlpvrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-67-12
              913950-68-2P
                             913950-69-32,
4-[(S)-2-[[[6-[[(Benzyl)(methyl)amino]methyl]-2-phenylpyrimidin-4-
yl]carbonyl]amino]-4-carboxybutanoyl]piperazine-1-carboxylic acid ethyl
ester 913950-70-6P, 4-[(S)-4-Carboxy-2-[[[6-[(4-
ethoxycarbonylpiperidin-1-yl)methyl]-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl]piperazine-1-carboxvlic acid ethvl ester
913950-71-79 913950-72-89,
4-[(S)-4-Carboxy-2-[[[6-[(4-methoxycarbonylpiperidin-1-v1)methyl]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913950-73-9P
                            913950-74-0P
913950-75-1P, 4-[(S)-4-Carboxy-2-[[[6-[(morpholin-4-yl)methyl]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913950-76-2P
                            913950-77-39,
ethyl ester
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(piperidin-1-yl)methyl]pyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913950-78-4P
               913950-79-5P.
4-[(S)-4-Carboxy-2-[[[6-[[(ethyl)(methyl)amino]methyl]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-80-8P, 4-[(S)-4-Carboxy-2-[[(6-diethylaminomethyl-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester 913950-81-9P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(pyrrolidin-1-yl)methyl]pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-82-09, 4-[(S)-4-Carboxy-2-[[[6-[(ethylsulfonyl)methyl]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
             913950-83-1P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-[(phenylsulfanyl)methyl]pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-84-2P, 4-[(S)-2-[[[6-[[(Phenyl)sulfonyl]methyl]-2-
phenylpyrimidin-4-yllcarbonyllaminol-4-carboxybutanoyllpiperazine-1-
carboxylic acid ethyl ester 913950-85-3P,
4-[(S)-4-Carboxy-2-[[[6-[(cyclopentylsulfanyl)methyl]-2-phenylpyrimidin-4-
vl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-86-4P, 4-[(S)-4-Carboxy-2-[[[6-
[(cvclopentvlsulfonvl)methvl]-2-phenvlpvrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-87-5P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(thiophen-3-
yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913950-88-6P,
4-[(S)-4-Carboxy-2-[[[6-(2-methoxyphenyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-89-7P, 4-[(S)-4-Carboxy-2-[[[6-(4-methylsulfonylphenyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913950-90-0P,
4-[(S)-2-[[[6-(4-Acetylphenyl)-2-phenylpyrimidin-4-yl]carbonyl]amino]-4-
carboxybutanovl]piperazine-1-carboxylic acid ethyl ester
913950-91-1P, 4-[(S)-4-Carboxy-2-[[[6-(2-fluoropheny1)-2-
phenylpyrimidin-4-vl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethvl ester 913950-92-2P.
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4-[(S)-4-Carboxy-2-[[[6-(3-cvanophenyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-93-3P, 4-[(S)-4-Carboxy-2-[[[6-(3-fluorophenyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913950-94-4P,
4-[(S)-4-Carboxy-2-[[[6-(4-methoxyphenyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913950-95-5P, 4-[(S)-4-Carboxy-2-[[[6-(furan-3-y1)-2-
phenylpyrimidin-4-yllcarbonyllamino|butanoyllpiperazine-1-carboxylic acid
             913950-96-69,
ethyl ester
4-[(S)-2-[[[6-(Benzodioxol-5-yl)-2-phenylpyrimidin-4-yl]carbonyl]amino]-4-
carboxybutanovllpiperazine-1-carboxylic acid ethyl ester
913950-97-7P, 4-[(S)-4-Carboxy-2-[[[6-(3-methoxypheny1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913950-98-8P,
ethyl ester
4-[(S)-4-Carboxy-2-[[[6-(4-hydroxymethylphenyl)-2-phenylpyrimidin-4-
v1|carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
913950-99-9P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(thiophen-2-
v1)pvrimidin-4-v1|carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid
ethyl ester
            913951-00-5P,
4-[(S)-4-Carboxy-2-[[[6-(4-cyanopheny1)-2-phenylpyrimidin-4-
yl]carbonyl]amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913951-01-6P, 4-[(S)-4-Carboxy-2-[[[6-(3-chlorophenyl)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
             913951-02-72,
ethvl ester
4-[(S)-2-[[[6-(Biphenv1-4-v1)-2-phenv1pvrimidin-4-v1]carbonv1]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913951-03-8P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(1H-pyrazol-4-
yl)pyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
            913951-04-9P
                            913951-05-0P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(3-trifluoromethylphenyl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-06-1P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(pyridin-3-
vl)pyrimidin-4-vl]carbonyl]amino|butanoyl]piperazine-1-carboxylic acid
ethyl ester
             913951-07-22,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(pyridin-4-yl)pyrimidin-4-
v1]carbonv1]amino|butanov1]piperazine-1-carboxv1ic acid ethv1 ester
913951-08-3P, 4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(thiazol-2-
v1)pvrimidin-4-v1|carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid
            913951-09-4P,
ethyl ester
4-[(S)-2-[[(6-Acetyl-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913951-10-7P
              913951-11-8P
                             913951-12-9P
913951-13-0P, 4-[(S)-4-Carboxy-2-[[[6-(1-hydroxy-1-methylethyl)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester 913951-14-1P,
4-[(S)-4-(Ethoxycarbony1)-2-[[[6-(1-hydroxy-1-methylethy1)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester
             913951-15-29,
4-[(S)-4-Carboxy-2-[[[6-(2-hydroxyethy1)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-16-3P, 4-[(S)-4-Carboxy-2-[[[6-(2-methoxyethyl)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
             913951-17-4P
                            913951-18-5P
ethvl ester
913951-19-6P
               913951-20-9P
                            913951-21-0P
913951-22-1P, 4-[(S)-4-Carboxy-2-[[[6-(3,6-dihydro-2H-pyran-4-y1)-
2-phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic
acid ethyl ester 913951-23-2P,
4-[(S)-4-Carboxy-2-[[[2-phenyl-6-(tetrahydropyran-4-yl)pyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
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913951-24-3P 913951-25-4P,
4-[(S)-4-Carboxy-2-[[[6-(1-oxopyridin-3-y1)-2-phenylpyrimidin-4-
vl|carbonvl|amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913951-26-5P
              913951-27-68
                             913951-28-72
                              913951-31-2P
913951-29-8P
               913951-30-1P
913951-32-3P, 4-[(S)-4-Carboxy-2-[[(6-cyano-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-33-49
               913951-34-5P
                              913951-35-6P
913951-36-7P
               913951-37-8P.
4-[(S)-4-Carboxy-2-[[(6-ethoxymethyl-2-phenylpyrimidin-4-
yl)carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-38-9P, 4-((S)-4-Carboxy-2-((2-phenyl-6-
trifluoromethylpyrimidin-4-yl)carbonyl]amino|butanoyl]piperazine-1-
carboxylic acid ethyl ester
                              913951-39-02,
4-[(S)-2-[[(6-tert-Butyl-2-phenylpyrimidin-4-yl)carbonyl]amino]-4-
carboxybutanoyl]piperazine-1-carboxylic acid ethyl ester
913951-40-3P, 4-[(S)-4-Carboxy-2-[[(6-phenoxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913951-41-4P, 4-(S)-4-Carboxy-2-([[2-phenyl-6-([pyridin-3-
yl) oxy | pyrimidin-4-yl] carbonyl] amino | butanoyl | piperazine-1-carboxylic acid
ethyl ester
             913951-42-5P,
(S)-5-[4-(tert-Butylcarbamoyl)piperazin-1-yl]-4-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyllaminol-5-oxopentanoic acid
913951-43-6P, (S)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
v1)carbonv1[amino]-5-[4-(isopropylcarbamov1)piperazin-1-v1]-5-oxopentanoic
       913951-44-7P, (S)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-
acid
4-yl)carbonyl]amino]-5-oxo-5-[4-[(thien-2-yl)carbonyl]piperazin-1-
                  913951-45-8P,
vl]pentanoic acid
(S)-5-[4-(Cyclopentylcarbonyl)piperazin-1-yl]-4-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-vl)carbonyllaminol-5-oxopentanoic acid
913951-46-9P, (S)-4-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]-5-oxo-5-[4-[(piperidin-1-yl)carbonyl]piperazin-1-
yl]pentanoic acid 913952-00-8P,
4-[(S)-4-Carboxy-2-[[[6-(1-oxopyridin-2-yl)-2-phenylpyrimidin-4-
vl]carbonyl|amino|butanoyl|piperazine-1-carboxylic acid ethyl ester
913952-01-9P, 4-[(S)-4-Carboxy-2-[[[6-(1-oxopyridin-4-yl)-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
             913952-02-0P.
ethyl ester
4-[(S)-4-Carboxy-2-[[[6-(2-hydroxy-1,1-dimethylethyl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913952-06-4P
              913952-07-5P
                              913952-08-6P
913952-09-79, 4-[(S)-4-Carboxy-2-[[[6-[(carboxymethy1)amino]-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
             913952-10-02,
ethvl ester
4-[(S)-4-Carboxy-2-[[[6-[(2-hydroxyethyl)amino]-2-phenylpyrimidin-4-
vl]carbonvl]amino|butanovl|piperazine-1-carboxvlic acid ethvl ester
913952-11-1P, 4-[(S)-4-Carboxy-2-[[[6-[(2-carboxyethv1)amino]-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethyl ester
             913952-12-29,
4-[(S)-4-Carboxy-2-[[[6-[(3-hydroxypropy1)amino]-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913952-13-3P
              913952-14-4P
                              913952-15-5P
913952-16-6P, 4-[(S)-4-Carboxy-2-[[[6-(4-hydroxypiperidin-1-y1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913952-17-79,
ethyl ester
4-[(S)-4-Carboxy-2-[[[6-(piperazin-1-y1)-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
              913952-19-9P,
913952-18-8P
4-[(S)-4-Carboxy-2-[[[6-[(2-methoxy-1,1-dimethylethyl)amino]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
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ethyl ester 913952-20-2P,

4-[(S)-4-Carboxy-2-[[[6-(4,5-dihydropyrazol-1-y1)-2-phenylpyrimidin-4-y1]carbonyl]amino|butanox]]piperazine-1-carboxylic acid ethyl ester 913987-8-5p 913967-10-9p 913967-12-ip

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of N-(4-pyrimidinylcarbonyl) amino acid

RN 913950-52-4 HCAPLUS

CN 1-Piperazinepentanoic acid, \( \gamma - \[ \[ \[ \] \] \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \] \[

Absolute stereochemistry.

RN 913950-53-5 HCAPLUS

CN 1-Piperazinepentanoic acid, \( \gamma - \left[ \left[ \left( \cyclopenty \rearborny 1) \) amino] -2phenyl-4-pyrimidinyl] carbonyl] amino] -4-(ethoxycarbonyl) -\delta -\d

Absolute stereochemistry.

RN 913950-54-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[6[(1-oxopentyl)lamino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, (γS)(CA INDEX NAME)

# 10/595,734

- RN 913950-55-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3-methyl-1-oxobutyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γs)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-56-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-[(cyclopropylcarbonyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-57-9 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(acetylamino)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

# 10/595,734

RN 913950-58-0 HCAPLUS

CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[[6- [(1-oxobutyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913950-59-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-methyl-1-oxopropyl)]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913950-60-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[6[(1-οxοpropyl)lamino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, (γS)(CA INDEX NAME)

RN 913950-61-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2-phenyl-6-[(propylsulfonyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (γS) - (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-62-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-
  - [(ethylsulfonyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-63-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2-phenyl-6-(phenylsuifonyl)amino]-4-pyrimidinyl]carbonyl]amino]-, (γS) (CA INDEX NAME)

# 10/595,734

- RN 913950-64-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[[(1-methylethyl)sulfonyl]amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οχο-, (γ9)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-65-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[6-(4-οxο-1(4H)-pyridinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-66-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(2,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)- (CA INDEX NAME)

RN 913950-67-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-hydroxy-1-methylpropyl)thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-68-2 HCAPLUS
- N 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-hydroxypropyl)thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-69-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[methyl(phenylmethyl)amino]methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]δ-oxo-, (yS)- (CA INDEX NAME)

# 10/595,734

- RN 913950-70-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-[[4-(ethoxycarbony1)-1-piperidiny1]methy1]-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-71-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-72-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-7-[[[6-[[4-(methoxycarbonyl)-1-piperidinyl]methyl]-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-6-oxo-, (yS)- (CA INDEX NAME)

- RN 913950-73-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3-hydroxy-1-piperidinyl]methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, (γ8)- (CA INDEX NAME)

- RN 913950-74-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-7-[[[6-[[2-(hydroxymethy1)-1-piperidiny1]methy1]-2-pheny1-4pyrimidiny1]carbony1]amino]-8-oxo-, (%5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-75-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(4-morpholinylmethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

- RN 913950-76-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[[(3R)-3-hydroxy-1-pyrrolidinyl]methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

- RN 913950-77-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(1-piperidinylmethyl)-4-pyrimidinyl]carbonyl]amino]-, (γS)-(CA INDEX NIME)

- RN 913950-78-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, Y-[[[6-[(2,6-dimethy]-4-morpholinyl)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-, (YS)- (CA INDEX NAME)

RN 913950-79-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\gamma-[[6-[(ethylmethylamino)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\delta-oxo-, (78)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913950-80-8 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-[(diethylamino)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913950-81-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-οxο-γ-[[[2-pheny1-6-(1-pyrrolidiny1methy1)-4-pyrimidiny1]carbony1]amino]-, (γS)- (CA INDEX NAME)

- RN 913950-82-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(ethylsulfonyl)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-83-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(phenylthio)methyl]-4-pyrimidinyl]carbonyl]amino]-, (γS)-(CA INDEX NAME)

- RN 913950-84-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2phenyl-6-[(phenylsulfonyl)methyl]-4-pyrimidinyl]carbonyl]amino]-, (γS)- (CA INDEX NAME)

- RN 913950-85-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-[(cyclopentylthio)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-86-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-[(cyclopentylsulfonyl)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)- (CA INDEX NAME)

- RN 913950-87-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[[2-phenyl-6-(3-thienyl)-4-pyrimidinyl]carbonyl]amino]-, ( $\gamma$ S)- (CA INDEX NAME)

- RN 913950-88-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\(\gamma\)-[[[6-(2-methoxyphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\(\hat{\text{\ti}\text{\texi\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texite\text{\text{\texite\text{\text{

Absolute stereochemistry.

- RN 913950-89-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[4-(methylsulfonyl]phenyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (%)- (CA INDEX NAME)

- RN 913950-90-0 HCAPLUS
- CN l-Piperazinepentanoic acid,  $\gamma = [[[6-(4-acetylpheny1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)-<math>\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

- RN 913950-91-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(2-fluorophenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913950-92-2 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(3-cyanopheny1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

- RN 913950-93-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-(3-fluoropheny1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

- RN 913950-94-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(4-methoxyphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, (%)- (CA INBEX NAME)

Absolute stereochemistry.

- RN 913950-95-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(3-furanyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxο-, (γ5)- (CA INDEX NAME)

- RN 913950-96-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(1,3-benzodioxo1-5-y1)-2-pheny1-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxo-, (γS)-(CA INDEX NAME)

RN 913950-97-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(3-methoxyphenyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-ô-oxo-, (%)- (CA INBEX NAME)

Absolute stereochemistry.

- RN 913950-98-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[4-(hydroxymethyl)phenyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

- RN 913950-99-9 HCAPLUS
- CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-(2-thienyl)-4-pyrimidinyl]carbonyl]amino]-, (YS)- (CA INDEX NAME)

- RN 913951-00-5 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(4-cyanopheny1)-2-pheny1-4-pyrimidinyl]carbony1]amino]-4-(ethoxycarbony1)- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-01-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \left[ (6-(3-chlorophenyl) 2-phenyl 4-pyrimidinyl carbonyl ) amino] 4-(ethoxycarbonyl) \( \delta \cop \), (\( \approx \)) \( \delta \). (\( \approx \)) \( \delta \), (\( \approx \)) \( \approx \)

- RN 913951-02-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[(6-[1,1'-bipheny1]-4-y1-2-pheny1-4pyrimidiny1)carbony1]amino]-4-(ethoxycarbony1)-8-oxo-, (γS)-(CA INDEX NAME)

- RN 913951-03-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-(IH-pyrazol-4-yl)-4-pyrimidinyl]carbonyl]amino]-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-04-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2-phenyl-6-[(1E)-2-phenylthenyl]-4-pyrimidinyl]carbonyl]amino]-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

- RN 913951-05-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-[3-(trifluoromethyl)phenyl]-4-pyrimidinyl]carbonyl]amino]-, (yS)- (CA INDEX NAME)

RN 913951-06-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[[2-phenyl-6-(3-pyridinyl)-4-pyrimidinyl]carbonyl]amino]-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-07-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-oxo-γ-[[[2-pheny1-6-(4-pyridiny1)-4-pyrimidiny1]carbony1]amino]-, (γS)- (CA INDEX NAME)

- RN 913951-08-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[[2-phenyl- $\delta$ -(2-thiazolyl)-4-pyrimidinyl]carbonyl]amino]-, ( $\gamma$ S)- (CA INDEX NAME)

RN 913951-09-4 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[(6-acetyl-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-10-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-7-[[[6-(1-hydroxyethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-, (\u00c45)- (CA INDEX NAME)

- RN 913951-11-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1-methoxyethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

$$\operatorname{OMe} \bigcup_{Ph} \operatorname{HO}_{2} \bigcap_{Ph} \operatorname{OE}$$

RN 913951-12-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(1-ethoxyethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γs)- (CA INDEX NAME)

Absolute stereochemistry.

$$\mathsf{Ne} \overset{\mathsf{OEt}}{\longleftarrow} \mathsf{Ho}_{2} \overset{\mathsf{O}}{\longleftarrow} \mathsf{OE}$$

- RN 913951-13-0 HCAPLUS
- CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1-hydroxy-1-methylethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

$$\stackrel{\text{Me}}{\longrightarrow} \stackrel{\text{OH}}{\longrightarrow} \stackrel{\text{HO}_2\text{C}}{\longrightarrow} \stackrel{\text{OE}}{\longrightarrow} \stackrel{\text{OE}}{\longrightarrow$$

- RN 913951-14-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-y-[[[6-(1-hydroxy-1-methylethy1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-\u00e3-oxo-, ethy1 ester, (yS)- (CA INDEX NAME)

- RN 913951-15-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-(2-hydroxyethy1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-16-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-methoxyethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-oxo-, (y5)- (CA INDEX NAME)

- RN 913951-17-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-(2-hydroxycyclohexyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-,

Absolute stereochemistry.

- RN 913951-18-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-methoxycyclohexyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, (γδ)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-19-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(2-hydroxycyclopentyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

- RN 913951-20-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-(2-hydroxypropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-,

Absolute stereochemistry.

$$\text{Me} \underbrace{ \left( \begin{array}{c} HO_2C \\ O \\ D \\ \end{array} \right) }_{Ph} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\ \end{array} \right) }_{I} \underbrace{ \left( \begin{array}{c} O \\ O \\$$

- RN 913951-21-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-methoxypropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-22-1 HCAPLUS
- CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-(3,6-dihydro-ZH-pyran-4-y1)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ 5)- (CA INDEX NAME)

- RN 913951-23-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[2-phenyl-6-(tetrahydro-2H-pyran-4-yl)-4-pyrimidinyl]carbonyl]amino]-,

Absolute stereochemistry.

- RN 913951-24-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[2-(ethoxycarbonyl)cyclohexyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δoxo-, (y6)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-25-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(1-oxido-3-pyridinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

- RN 913951-26-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)- $\gamma$ -[[[6-[(1E)-3-ethoxy-3-oxo-1-propen-1-y1]-2-pheny1-4-pyrimidiny1]carbony1]amino]- $\delta$ -oxo-,

Absolute stereochemistry. Double bond geometry as shown.

RN 913951-27-6 HCAPLUS

CN 1-Piperarinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-[(tetrahydro-2-furanyl)methyl]-4-pyrimidinyl]carbonyl]amino]-, (γS) - (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-28-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(1E)-4-hydroxy-1-buten-1-y1]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

RN 913951-29-8 HCAPLUS

## 10/595.734

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(3-hydroxy-2-methylpropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-30-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-6-oxo-y-[[[2phenyl-6-(tetrahydro-3-furanyl)-4-pyrimidinyl]carbonyl]amino]-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-31-2 HCAPLUS
- CN l-Piperazinepentanoic acid, y-[[[6-[(1E)-3-(dimethylamino)-3-oxo-1-propen-1-yl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 913951-32-3 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[(6-cyano-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913951-33-4 HCAPLUS

CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\gamma-[[[6-(1-hydroxypropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\delta-oxo-, (\gammas)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-34-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(1-hydroxybutyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\(\delta\)-0xo-, (\(\gamma\)) - (CA INDEX NAME)

RN 913951-35-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-(hydroxyphenylmethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-, (YS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-36-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(2-hydroxy-2-phenylethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-37-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(ethoxymethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, (γ5)- (CA INDEX NAME)

RN 913951-38-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(trifluoromethyl)-4-pyrimidinyl]carbonyl]amino]-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

$$F3C \underbrace{ \begin{array}{c} HO_2C \\ \\ \\ F_h \end{array}}$$

RN 913951-39-0 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(1,1-dimethylethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxo-, (γS)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913951-40-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-δ-oxo-γ-[[(6-phenoxy-2-pheny1-4-pyrimidiny1)carbony1]amino]-, (γS)- (CA INDEX NAME)

RN 913951-41-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\delta$ -oxo- $\gamma$ -[[[2-phenyl- $\delta$ -(3-pyridinyloxy)-4-pyrimidinyl]carbonyl]amino]-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-42-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]mminoj-4-[[(1,1-dimethylethyl)aminojcarbonyl]-δ-oxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913951-43-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-[[(1-methylethyl)amino]carbonyl]-δ-οxο-, (γs)- (CA INDEX NAME)

RN 913951-44-7 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino[-δ-oxo-4-(2-thienylcarbonyl)-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-45-8 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(cyclopentylcarbonyl)-y-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-\u00e3-oxo-, (\u00bas)|- (CA INDEX NAME)

Absolute stereochemistry.

RN 913951-46-9 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-4-(1-piperidinylcarbonyl)-, (%)- (CA INDEX NAME)

- RN 913952-00-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(1-oxido-2-pyridinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

- RN 913952-01-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)-γ-[[[6-(1-oxido-4-pyridiny1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913952-02-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(2-hydroxy-1,1-dimethylethyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γS)- (CA INDEX NAME)

RN 913952-06-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbony1)- $\gamma$ -[[[6-[2-(hydroxymethy1)cyclopropy1]-2-pheny1-4-pyrimidiny1]carbony1]amino]- $\delta$ -oxo-, 1,1-dimethylethy1 ester, ( $\gamma$ 5) - (CA INDEX NAME)

Absolute stereochemistry.

- RN 913952-07-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[2-(hydroxymethyl)cyclopropyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-6-oxo-, (y8)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913952-08-6 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-amino-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 913952-09-7 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-[(carboxymethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-10-0 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)- $\gamma$ -[[[6-[(2-hydroxyethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]- $\delta$ -oxo-,  $(\gamma S)$ - (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-11-1 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-[(2-carboxyethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)-(SCI) (CA INDEX NAME)

RN 913952-12-2 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(3-hydroxypropyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-13-3 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[2-phenyl-f-[(135)-1-phenyl-f-thyl]amino]-4-pyrimidinyl]carbonyl]amino]-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-14-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\u00e3-co-\u00e3-[[[2phenyl-6-[[(1R)-1-phenylethyl]amino]-4-pyrimidinyl]carbonyl]amino]-,
(\u00e75)- (CA INDEX NAME)

RN 913952-15-5 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-[(2,3-dihydro-1H-inden-1-yl)amino]-2-phenyl-4-ppyimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)δ-oxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-16-6 HCAPLUS

CN l-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(4-hydroxy-1-piperidinyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEN NAME)

Absolute stereochemistry.

RN 913952-17-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-οxο-γ-[[[2-phenyl-6-(1-piperazinyl)-4-pyrimidinyl]carbonyl]amino]-, (γS)- (CA INDEX NAME)

RN 913952-18-8 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(2-hydroxy-1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (γ5)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-19-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(2-methoxyl,1-dimethylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δoxo-, (yS)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-20-2 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-(4,5-dihydro-1H-pyrazol-1-yl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, (γS)- (CA INDEX NAME)

RN 913953-38-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-[(1E)-3-hydroxy-1-buten-1-yl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, (γS)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

RN 913967-10-9 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[(trans-4-hydroxycyclohexyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, (y6)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913967-12-1 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-(trans-4-hydroxycyclohexyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, (yS)- (CA INDEX NAME)

73955-54-1P, 6-Methyl-2-phenylpyrimidine-4-carboxylic acid

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methvl ester
              85815-04-9P,
6-Methoxy-2-phenylpyrimidine-4-carboxylic acid
6-Methyl-2-phenylpyrimidine-4-carboxylic acid
                                                913952-21-3P.
4-Cvclopentvloxv-6-(methoxymethvl)-2-phenvlpvrimidine
913952-22-4P, (6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)methanol
913952-23-5P, 6-Cyclopentyloxy-2-phenylpyrimidine-4-carboxaldehyde
913952-24-6P, 6-Cyclopentyloxy-2-phenylpyrimidine-4-carboxylic
acid 913952-38-2P
                     913952-41-79,
4-[(S)-6-[(Benzyloxycarbonyl)amino]-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-vl)carbonyllaminolhexanovllpiperazine-1-carboxylic acid
ethyl ester 913952-44-0P
                           913952-45-1P
913952-46-2P, 4-[(S)-4-Cvano-2-[[(6-cvclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester
             913952-49-5P
                             913952-54-2P
913952-55-3P
               913952-56-49,
[(6-Methyl-2-phenylpyrimidin-4-yl)oxy]acetic acid methyl ester
913952-57-5P, 6-[(Methoxycarbonyl)methoxy]-2-phenylpyrimidine-4-
carboxylic acid
                 913952-58-62,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[(methoxycarbonyl)methoxy]-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
             913952-59-79,
ethvl ester
                                                913952-60-0P,
6-Chloro-2-phenylpyrimidine-4-carboxylic acid
2-Phenvl-6-propoxypyrimidine-4-carboxylic acid
                                                 913952-61-12,
6-(2-Hydroxyethoxy)-2-phenylpyrimidine-4-carboxylic acid
913952-62-2P, 6-Benzyloxy-2-phenylpyrimidine-4-carboxylic acid
913952-63-3P, 6-Cyclopropylmethoxy-2-phenylpyrimidine-4-carboxylic
acid
       913952-64-4P, 6-Cyclohexyloxy-2-phenylpyrimidine-4-
                913952-65-5₽,
carboxvlic acid
6-Isopropoxy-2-phenylpyrimidine-4-carboxylic acid
                                                  913952-69-92
, 4-[3-(3-Benzyloxyphenyl)-2-[[(6-cyclopentyloxy-2-phenylpyrimidin-4-
yl)carbonyl]amino]propionyl]piperazine-1-carboxylic acid ethyl ester
913952-70-2P, 4-[2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-
v1) carbonv1 amino -3-(3-hvdroxyphenv1) propionv1 piperazine-1-carboxv1ic
acid ethyl ester 913952-75-7P
                                  913952-76-89.
4-[2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-y1)carbonyl]amino]-3-(2-
hydroxyphenyl)propionyl]piperazine-1-carboxylic acid ethyl ester
913952-79-1F, 4-[(S)-2-(4-Benzyloxyphenyl)-2-[[(6-cyclopentyloxy-2-
phenylpyrimidin-4-yl)carbonyl]amino]ethanoyl]piperazine-1-carboxylic acid
ethvl ester 913952-80-4P,
4-[(S)-2-[[(6-Cyclopentyloxy-2-phenylpyrimidin-4-yl)carbonyl]amino]-2-(4-
hydroxyphenyl)ethanoyl]piperazine-1-carboxylic acid ethyl ester
913952-81-5P 913952-82-6P 913952-83-7P
913952-88-2P, 4-[(S)-4-tert-Butoxycarbony1-2-[[(6-chloro-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethvl ester 913952-90-6P.
4-[2-[[(6-Chloro-2-phenylpyrimidin-4-vl)carbonyl]amino]acetyl]piperazine-1-
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carboxvlic acid ethvl ester
                             913952-91-79,
4-[(S)-2-[[(6-Chloro-2-phenylpyrimidin-4-yl)carbonyl]amino]-3-
methylbutanovllpiperazine-1-carboxylic acid ethyl ester
913952-92-8P 913952-93-9P,
4-[(S)-5-tert-Butoxycarbonyl-2-[[(6-chloro-2-phenylpyrimidin-4-
v1)carbonyl[amino]pentanovl[piperazine-1-carboxylic acid ethyl ester
913952-94-0P
               913952-95-1P
                              913952-96-2P
913952-97-39
               913952-98-4P
                              913952-99-50,
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(1,4-dioxaspiro[4,5]dec-7-en-8-yl])-2-
phenylpyrimidin-4-vl[carbonyl]amino|butanoyl[piperazine-1-carboxylic acid
              913953-00-19.
ethyl ester
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(1,4-dioxaspiro[4.5]decan-8-yl])-2-
phenylpyrimidin-4-yl|carbonyl|amino|butanoyl|piperazine-1-carboxylic acid
ethvl ester
             913953-01-22,
4-[(S)-4-Carboxy-2-[[(6-chloro-2-phenylpyrimidin-4-
yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913953-02-3P, 4-[(S)-2-[[(6-Azido-2-phenylpyrimidin-4-
yl)carbonyl]amino]-4-tert-butoxycarbonylbutanoyl]piperazine-1-carboxylic
acid ethyl ester 913953-03-4P
                                 913953-04-5P
              913953-06-79,
913953-05-6P
6-Formyl-2-phenylpyrimidine-4-carboxylic acid methyl ester
913953-07-8P, 6-Hydroxymethyl-2-phenylpyrimidine-4-carboxylic acid
              913953-08-92,
6-Chloromethyl-2-phenylpyrimidine-4-carboxylic acid methyl ester
913953-09-0P, 6-Chloromethyl-2-phenylpyrimidine-4-carboxylic acid
913953-10-3P, 4-[(S)-4-tert-Butoxycarbonyl-2-[[(6-chloromethyl-2-
phenylpyrimidin-4-yl)carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
              913953-11-4P
                           913953-12-5P,
4-[(S)-4-tert-Butoxycarbonyl-2-[[(2-phenyl-6-vinylpyrimidin-4-
v1)carbonv1|amino|butanov1|piperazine-1-carboxv1ic acid ethv1 ester
             913953-15-8P 913953-16-9P,
913953-14-7P
4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-(2-oxopropyl)-2-phenylpyrimidin-4-
vl]carbonyl]amino|butanoyl]piperazine-1-carboxylic acid ethyl ester
913953-17-0P, 4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(2-
ethoxycarbonylcyclohex-1-envl)-2-phenylpyrimidin-4-
yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid ethyl ester
913953-18-1P
              913953-19-2P,
4-[(S)-4-tert-Butoxycarbony1-2-[[[6-(4,5-dihydrofuran-3-y1)-2-
phenylpyrimidin-4-yl]carbonyl]amino]butanoyl]piperazine-1-carboxylic acid
ethyl ester
            913953-20-5P,
6-(1-Hydroxypropyl)-2-phenylpyrimidine-4-carboxylic acid methyl ester
913953-21-6P, 6-(1-Hydroxypropyl)-2-phenylpyrimidine-4-carboxylic
      913953-22-7P, 6-(1-Hydroxybutyl)-2-phenylpyrimidine-4-
carboxylic acid methyl ester
                             913953-23-8P.
6-(1-Hydroxybutyl)-2-phenylpyrimidine-4-carboxylic acid
913953-24-9P, 6-[(Hydroxy)(phenyl)methyl]-2-phenylpyrimidine-4-
carboxylic acid methyl ester
                             913953-25-0P.
6-[(Hydroxy)(phenyl)methyl]-2-phenylpyrimidine-4-carboxylic acid
913953-26-1F, 6-(2-Hydroxy-2-phenylethyl)-2-phenylpyrimidine-4-
carboxylic acid
                 913953-27-22,
2-Phenyl-6-trifluoromethylpyrimidine-4-carboxylic acid
913953-31-8P, 6-tert-Butyl-2-phenylpyrimidine-4-carboxylic acid
913953-35-2P, 6-[2-[(tert-Butyldimethylsilanyl)oxy]-1,1-
dimethylethyl]-2-phenylpyrimidine-4-carboxylic acid 913953-36-32
, 4-[(S)-4-tert-Butoxycarbonyl-2-[[[6-[2-[(tert-butyldimethylsilanyl)oxy]-
1,1-dimethylethyl]-2-phenylpyrimidin-4-
vllcarbonvllamino|butanovllpiperazine-1-carboxvlic acid ethvl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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(intermediate; preparation of N-(4-pyrimidinylcarbonyl) amino acid

(Reactant or reagent)

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piperazides and their use as P2Y12 receptor antagonists)

- RN 73955-54-1 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-methyl-2-phenyl-, methyl ester (CA INDEX NAME)

- RN 85815-04-9 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-methoxy-2-phenyl- (CA INDEX NAME)

- RN 858269-17-7 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-methyl-2-phenyl- (CA INDEX NAME)

- RN 913952-21-3 HCAPLUS
- CN Pyrimidine, 4-(cyclopentyloxy)-6-(methoxymethyl)-2-phenyl- (CA INDEX NAME)

- RN 913952-22-4 HCAPLUS
- CN 4-Pyrimidinemethanol, 6-(cyclopentyloxy)-2-phenyl- (CA INDEX NAME)

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RN 913952-23-5 HCAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-(cyclopentyloxy)-2-phenyl- (CA INDEX NAME)

RN 913952-24-6 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(cyclopentyloxy)-2-phenyl- (CA INDEX NAME)

RN 913952-38-2 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-3-[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxopropyl]-, ethyl ester (9C1) (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-41-7 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxo-6-[[[(phenylmethoxy)carbonyl]amino]hexyl]-, ethyl ester (9CI) (CA INDEX NAME)

- RN 913952-44-0 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(28)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino[-1-oxo-3-(phenylmethoxy)propyl]-, ethyl ester (SCI) (CA INDEX NAME)

- RN 913952-45-1 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-cyano-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913952-46-2 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-4-cyano-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 913952-49-5 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-(4-cyanophenyl)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxopropyl]-, ethyl ester (9C1) (CA INDEX NABE)

Absolute stereochemistry.

- RN 913952-54-2 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxo-3-[4-(phenylmethoxy)phenyl]propyl]-, ethyl ester (9CI) (CA INDEX NAME)

- RN 913952-55-3 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-3-(4-hydroxyphenyl)-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

- RN 913952-56-4 HCAPLUS
- CN Acetic acid, 2-[(6-methyl-2-phenyl-4-pyrimidinyl)oxy]-, methyl ester (CA INDEX NAME)

- RN 913952-57-5 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-(2-methoxy-2-oxoethoxy)-2-phenyl- (CA INDEX NAME)

- RN 913952-58-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(2-methoxy-2-oxoethoxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-οxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

- RN 913952-59-7 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-chloro-2-phenyl- (CA INDEX NAME)

- RN 913952-60-0 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 2-phenyl-6-propoxy- (CA INDEX NAME)

- RN 913952-61-1 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-(2-hydroxyethoxy)-2-phenyl- (CA INDEX NAME)

- RN 913952-62-2 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 2-phenyl-6-(phenylmethoxy)- (CA INDEX NAME)

RN 913952-63-3 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(cyclopropylmethoxy)-2-phenyl- (CA INDEX NAME)

RN 913952-64-4 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(cyclohexyloxy)-2-phenyl- (CA INDEX NAME)

RN 913952-65-5 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(1-methylethoxy)-2-phenyl- (CA INDEX NAME)

RN 913952-69-9 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxo-3-[3-(phenylmethoxy)phenyl]propyl]-, ethyl ester (CA INDEX NAME)

RN 913952-70-2 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-3-(3-hydroxyphenyl)-1-oxopropyl]-, ethyl ester (CA INDEX NAME)

RN 913952-75-7 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimiddinyl]carbonyl]namino]-1-oxo-3-[2-(phenylmethoxy)phenyl]propyl]-, ethyl ester (CA INDEX NAME)

RN 913952-76-8 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[2-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-3-(2-hydroxyphenyl)-1-oxopropyl]-, ethyl ester (CA INDEX NAME)

- RN 913952-79-1 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-[[[6-(cyclopentyloxy)-2-phenyl-4pyrimidinyl]carbonyl]amino][4-(phenylmethoxy)phenyl]acetyl]-, ethyl ester (9C1) (CA INDEX NAME)

- RN 913952-80-4 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino](4-hydroxyphenyl)acetyl]-, ethyl ester (9CI) (CA INDEX NAME)

- RN 913952-81-5 HCAPLUS
- $\begin{array}{lll} & \text{L-Glutamic acid, N-[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]-,} \\ & 5-(1,1-\text{dimethylethyl}) \ 1-\text{methyl ester} & \text{(CA INDEX NAME)} \end{array}$

- RN 913952-82-6 HCAPLUS
- CN L-Glutamic acid, N-[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]-, 5-(1,1-dimethylethyl) ester (CA INDEX NAME)

Absolute stereochemistry.

- RN 913952-83-7 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-(cyclopentyloxy)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-, 1,1-dimethylethyl ester, (%)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913952-88-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, 7-[[(6-chloro-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)-\(\delta\)-oxo-, 1,1-dimethylethyl ester, (78)- (CA INDEX NAME)

RN 913952-90-6 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[2-[[(6-chloro-2-phenyl-4-pyrimidinyl)carbonyl]amino]acetyl]-, ethyl ester (CA INDEX NAME)

RN 913952-91-7 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[(6-chloro-2-phenyl-4-pyrimidinyl)carbonyl]amino]-3-methyl-1-oxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-92-8 HCAPLUS

CN Benzoic acid, 4-[(2S)-2-[[(6-chloro-2-phenyl-4-pyrimidinyl)carbonyl]amino]-3-[4-(ethoxycarbonyl)-1-piperazinyl]-3-oxopropyl]-, methyl ester (CA INDEX NAME)

- RN 913952-93-9 HCAPLUS
- CN 1-Piperazinehexanoic acid, &-[[(6-chloro-2-phenyl-4-pyrimidinyl)carbonyl]mino]-4-(ethoxycarbonyl)-e-oxo-, 1,1-dimethylethyl ester, (&S)- (CA INDEX NAME)

- RN 913952-94-0 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(25)-4-amino-2-[((6-chloro-2-phenyl-4-pyrimidinyl)carbonyl]amino]-1,4-dioxobutyl]-, ethyl ester (9CI) (CA INDEX NAME)

- RN 913952-95-1 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-cyano-1-oxo-2-[[[2-phenyl-6-[(phenylmethyl)amino]-4-pyrimidinyl]carbonyl]amino]propyl]-, ethyl ester

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 913952-96-2 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[(6-chloro-2-phenyl-4-pyrimidinyl)carbonyl]amino]-1-cxoo-3-[4-[phenylmethoxy]phenyl]propyl]-, ethyl ester (9C1) (CA INDEX NAME)

Absolute stereochemistry.

- RN 913952-97-3 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[(2S)-2-[[(6-[(1-methylethyl)amino]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-1-oxo-3-[4-(phenylmethoxy)phenyl]propyl]-, ethyl ester (9CI) (CA INDEX NAME)

- RN 913952-98-4 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-8-oxo-y-[[[2-phenyl-6-[2-(trimethylsilyl)ethynyl]-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913952-99-5 HCAPLUS
- CN 1-Piperazinepentanoic acid, Y-[[[6-(1,4-dioxaspiro[4.5]dec-7-en-8-y1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)-8-oxo-, 1,1-dimethylethyl ester, (y5)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913953-00-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, y-[[[6-(1,4-dioxaspiro[4.5]dec-8-y1)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

RN 913953-01-2 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[(6-chloro-2-pheny1-4-pyrimiddiny1)carbony1]amino]-4-(ethoxycarbony1)- $\delta$ -oxo-, ( $\gamma$ S)-(CA INDEX NAME)

Absolute stereochemistry.

RN 913953-02-3 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[(6-azido-2-phenyl-4-pyrimidinyl)carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, 1,1-dimethylethyl ester, ( $\gamma$ S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 913953-03-4 HCAPLUS

CN 1-Piperazinepentanoic acid, γ-[[[6-[[2-[[(1,1-dimethylethyl]dimethylsilyl]oxy]-1-methylpropyl]thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-οxο-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

RN 913953-04-5 HCAPLUS

CN 1-Piperazinepentanoic acid,  $\gamma$ -[[[6-[[2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-methylpropyl]thio]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)- $\delta$ -oxo-, ( $\gamma$ S)- (CA INDEX NAME)

# Absolute stereochemistry.

$$\begin{array}{c} \text{Me} \\ \text{Ho}_2\text{C} \\ \text{Me} \\ \text{Me} \\ \text{Me} \\ \text{Ph} \\ \end{array}$$

- RN 913953-05-6 HCAPLUS
- CN 1-Piperazinepentanoic acid, \( \gamma \left[\left\{ \left[\dagger \left\{ \left

- RN 913953-06-7 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-formyl-2-phenyl-, methyl ester (CA INDEX NAME)

RN 913953-07-8 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(hydroxymethyl)-2-phenyl-, methyl ester (CA INDEX NAME)

RN 913953-08-9 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(chloromethyl)-2-phenyl-, methyl ester (CA INDEX NAME)

RN 913953-09-0 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(chloromethyl)-2-phenyl- (CA INDEX NAME)

RN 913953-10-3 HCAPLUS

CN 1-Piperazinepentanoic acid, y-[[[6-(chloromethy1)-2-pheny1-4-pyrimidiny1]carbony1]amino]-4-(ethoxycarbony1)-8-oxo-, 1,1-dimethylethy1 ester, (yS)- (CA INDEX NAME)

RN 913953-11-4 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\gamma-[[[6-(1-ethoxyethenyl)-2-phenyl-4-pyrimidinyl][arbonyl]amino]-\hat{\phi}

Absolute stereochemistry.

RN 913953-12-5 HCAPLUS

CN 1-Piperazinepentanoic acid, 7-[[(6-ethenyl-2-phenyl-4-pyrimidinyl) carbonyl]amino]-4-(ethoxycarbonyl)-ô-oxo-, 1,1-dimethylethyl ester, (78)- (CA INDEX NAME)

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[6-{2-oxocyclohexyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (γS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913953-15-8 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-δ-oxo-γ-[[[6-(2-oxocyclopentyl)-2-phenyl-4-pyrimiddinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (YS)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913953-16-9 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\delta-oxo-y-[[[6-(2-oxopropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino]-, 1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

- RN 913953-17-0 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-y-[[[6-[2-(ethoxycarbonyl)-1-cyclohexen-1-yl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-8-oxo-, 1,1-dimethylethyl ester, (y8)- (CA INDEX NAME)

- RN 913953-18-1 HCAPLUS
- CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6-(2-methyl-3-oxpropyl)-2-phenyl-4-pyrimidinyl]carbonyl]amino|-δ-oxo-, 1,1-dimethylethyl ester, (γs)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 913953-19-2 HCAPLUS
- CN 1-Piperazinepentanoic acid, y=[[[6-(4,5-dihydro-3-furanyl)-2-phenyl4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-6-oxo-,
  1,1-dimethylethyl ester, (yS)- (CA INDEX NAME)

RN 913953-20-5 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(1-hydroxypropy1)-2-pheny1-, methyl ester (CA INDEX NAME)

RN 913953-21-6 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(1-hydroxypropy1)-2-pheny1- (CA INDEX NAME)

RN 913953-22-7 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(1-hydroxybutyl)-2-phenyl-, methyl ester (CA INDEX NAME)

- RN 913953-23-8 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-(1-hydroxybutyl)-2-phenyl- (CA INDEX NAME)

- RN 913953-24-9 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-(hydroxyphenylmethyl)-2-phenyl-, methyl ester (CA INDEX NAME)

- RN 913953-25-0 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-(hydroxyphenylmethyl)-2-phenyl- (CA INDEX NAME)

- RN 913953-26-1 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-(2-hydroxy-2-phenylethyl)-2-phenyl- (CA INDEX NAME)

RN 913953-27-2 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 2-phenyl-6-(trifluoromethyl)- (CA INDEX NAME)

- RN 913953-31-8 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-(1,1-dimethylethyl)-2-phenyl- (CA INDEX NAME)

- RN 913953-35-2 HCAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-[2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1-dimethylethyl]-2-phenyl- (CA INDEX NAME)

- RN 913953-36-3 HCAPLUS
- CN 1-Piperazinepentanoic acid, γ-[[[6-[2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1-dimethylethyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-4-(ethoxycarbonyl)-δ-oxo-, 1,1-dimethylethyl ester, (γ5)- (CA INDEX NAME)

IIT 913953-13-6, 4-[(S)-2-[[(6-Phenylsulfonyl-2-phenylpyrimidin-4yl)carbonyl]amino]-4-tert-butoxycarbonylbutanoyl]piperazine-1-carboxylic acid ethyl ester

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of N-(4-pyrimidinylcarbonyl) amino acid piperazides and their use as P2Y12 receptor antagonists)

RN 913953-13-6 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-\(\tilde{\tilde

Absolute stereochemistry.

IT 1160050-66-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-(4-pyrimidinylcarbonyl) amino acid piperazides and their use as P2Y12 receptor antagonists)

RN 1160050-66-7 HCAPLUS

CN 1-Piperazinepentanoic acid, 4-(ethoxycarbonyl)-γ-[[[6[(ethylthio)methyl]-2-phenyl-4-pyrimidinyl]carbonyl]amino]-δ-oxo-,
(γS)- (CA INDEX NAME)

Absolute stereochemistry.

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 5 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 5

ACCESSION NUMBER: 2006:977650 HCAPLUS Full-text

DOCUMENT NUMBER: 145:336070

TITLE: Preparation of 2-phenyl-5-pyrimidinecarboxylic acids

as cardiovascular agents INVENTOR(S): Woltering, Elisabeth; Tuch, Arounarith;

Dittrich-Wengenroth, Elke; Kretschmer, Axel;

Baerfacker, Lars; Bauser, Marcus; Ellinghaus, Peter;

Lustiq, Klemens; Pook, Elisabeth; Weber, Olaf

PATENT ASSIGNEE(S): Bayer Healthcare AG, Germany SOURCE: PCT Int. Appl., 100pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: 

PATENT NO.	KIN	D DATE	APPLICATION NO.	
WO 2006007220	3.1	20060021	WO 2006-EP2054	
			BA, BB, BG, BR, BW,	
			DM, DZ, EC, EE, EG, IN, IS, JP, KE, KG,	
			LV, LY, MA, MD, MG,	
			PG, PH, PL, PT, RO,	
			TN, TR, TT, TZ, UA,	
VN, YU,			IN, IK, II, IZ, OA,	03, 03, 02, 00,
			DK, EE, ES, FI, FR,	GR GR HII TE
			PL, PT, RO, SE, SI,	
			GW, ML, MR, NE, SN,	
			SL, SZ, TZ, UG, ZM,	
KG, KZ,			00, 00, 10, 00, 11,	J., 111, 111, 111,
			DE 2005-10200502	7150 20050611 <
			AU 2006-224812	
			CA 2006-2600681	
EP 1866289	A1	20071219	EP 2006-707442	20060307 <
R: AT, BE,	BG, CH,	CY, CZ, DE,	DK, EE, ES, FI, FR,	GB, GR, HU, IE,
IS, IT,	LI, LT,	LU, LV, MC,	NL, PL, PT, RO, SE,	SI, SK, TR
JP 2008533063	T	20080821	JP 2008-501193	20060307 <
			IN 2007-DN6929	20070907 <
MX 2007011070	A	20071107	MX 2007-11070	20070910 <
KR 2007116876	A	20071211	KR 2007-723311	20071011 <
CN 101175731	A	20080507	CN 2006-80016168	20071112 <
US 20080194598	A1	20080814	US 2008-886289	20080310 <
PRIORITY APPLN. INFO	.:		DE 2005-10200501	1447A 20050312 <
			DE 2005-10200502°	7150A 20050611 <
			WO 2006-EP2054	
OTHER SOURCE(S): CASREACT 145:336070; MARPAT 145:336070				

CASREACT 145:336070; MARPAT 145:336070

ED Entered STN: 21 Sep 2006

GI

<sup>\*</sup> STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Title compds. I [A = CH2, O; R1 = halo, CN, alkyl; R2 = (R2')n; R2' = alkyl, alkoxyl, etc.; n = 0-3; R3 = H, F, C1; R4 = H, halo, NO2, etc.; R5, R6 = H, halo, NO2, etc.; Z = H, alkyll and their pharmaceutically acceptable salts and formulations were prepared For example, O-arylation of 2-chlorophenol with

CC

ΙT

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chloropyrimidine II afforded claimed phenylpyrimidine III in 99% vield.
Compds. I are claimed to be useful as as cardiovascular agents.
28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 63
910053-02-0P, 4-(2-Chlorophenoxy)-2-phenylpyrimidine-5-
carboxylic acid ethyl ester 910053-03-1P,
4-(2-Chlorophenoxy)-2-phenylpyrimidine-5-carboxylic acid
919953-04-2P, 4-(2-Fluorophenoxy)-2-phenylpyrimidine-5-carboxylic
      910053-05-3P, 4-(2-Methylphenoxy)-2-phenylpyrimidine-5-
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4-(2-Bromophenoxy)-2-phenylpyrimidine-5-carboxylic acid
910053-07-5P, 4-(2-Chloro-4-methylphenoxy)-2-phenylpyrimidine-5-
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                910053-08-6P,
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carboxvlic acid 910053-16-6P,
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4-(5-Chloro-2-methylphenoxy)-2-phenylpyrimidine-5-carboxylic acid ethyl
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acid ethyl ester
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       910053-32-6P, 4-(2-Chlorophenoxy)-2-(3,4-
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910053-33-7P, 4-(2-Chlorophenoxy)-2-(3,4-dimethylphenyl)pyrimidine-
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910053-35-9P, 4-(2,4-Dimethylphenoxy)-2-phenylpyrimidine-5-
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carboxylic acid 910053-36-0P.

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4-(2,4-Dichloro-3,5-dimethylphenoxy)-2-phenylpyrimidine-5-carboxylic acid
910053-37-1P, 4-(2,3-Dichlorophenoxy)-2-phenylpyrimidine-5-
carboxvlic acid 910053-38-2P,
4-(2,5-Fluorophenoxy)-2-phenylpyrimidine-5-carboxylic acid
910053-39-3P, 4-(2-Cyanophenoxy)-2-phenylpyrimidine-5-carboxylic
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4-(2-Cyanophenoxy)-2-phenylpyrimidine-5-carboxylic acid
910053-41-7P, 4-(5-Cyano-2-methylphenoxy)-2-phenylpyrimidine-5-
carboxvlic acid ethvl ester 910053-42-8P.
4-(5-Cvano-2-methylphenoxy)-2-phenylpyrimidine-5-carboxylic acid
910053-43-9P, 4-(2-Chlorophenoxy)-2-(4-methyl-3-
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910053-44-0P, 4-(2-Chlorophenoxy)-2-(4-methyl-3-
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (preparation of phenylpyrimidinecarboxylic acids as cardiovascular agents)
910053-02-0P, 4-(2-Chlorophenoxy)-2-phenylpyrimidine-5-
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4-(2-Chlorophenoxy)-2-phenylpyrimidine-5-carboxylic acid
910053-04-29, 4-(2-Fluorophenoxy)-2-phenylpyrimidine-5-carboxylic
     910053-05-3P, 4-(2-Methylphenoxy)-2-phenylpyrimidine-5-
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4-(2-Bromophenoxy)-2-phenylpyrimidine-5-carboxylic acid
910053-07-5P, 4-(2-Chloro-4-methylphenoxy)-2-phenylpyrimidine-5-
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910053-09-7P, 4-(2,5-Dichlorophenoxy)-2-phenylpyrimidine-5-
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910053-15-5P, 4-(2-Chlorophenoxy)-2-(4-methoxyphenyl)pyrimidine-5-
carboxvlic acid 910053-16-6P,
4-[2-Chloro-5-(trifluoromethyl)phenoxy]-2-phenylpyrimidine-5-carboxylic
acid ethyl ester 910053-17-7P,
4-(5-Chloro-2-methylphenoxy)-2-phenylpyrimidine-5-carboxylic acid ethyl
       910053-18-3P, 4-(2-Chlorophenoxy)-2-(3-fluoro-4-
methylphenyl)pyrimidine-5-carboxylic acid ethyl ester
910053-19-9P, 4-(2-Chlorophenoxy)-2-(3-fluoro-4-
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4-(2,5-Dichlorophenoxy)-2-(3-fluoro-4-methylphenyl)pyrimidine-5-carboxylic
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4-(2,5-Dichlorophenoxy)-2-(3-fluoro-4-methylphenyl)pyrimidine-5-carboxylic
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910053-23-5P, 2-[3,5-Di(trifluoromethyl)phenyl]-4-(2-
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910053-41-79, 4-(5-Cyano-2-methylphenoxy)-2-phenylpyrimidine-5-
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910053-43-9P, 4-(2-Chlorophenoxy)-2-(4-methyl-3-
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      910053-47-3P, 4-(2-Chlorophenoxy)-2-(3,4,5-
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910053-48-4P, 4-(2-Chlorophenoxy)-2-(3,4,5-
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acid ethyl ester 910053-52-0P,
4-(2-Chlorobenzyl)-2-phenylpyrimidine-5-carboxylic acid
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (preparation of phenylpyrimidinecarboxylic acids as cardiovascular agents)
910053-02-0 HCAPLUS
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CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-phenyl-, ethyl ester

RN

(CA INDEX NAME)

- RN 910053-03-1 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-phenyl- (CA INDEX NAME)

- RN 910053-04-2 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(2-fluorophenoxy)-2-phenyl- (CA INDEX NAME)

- RN 910053-05-3 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(2-methylphenoxy)-2-phenyl- (CA INDEX NAME)

- RN 910053-06-4 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(2-bromophenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-07-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chloro-4-methylphenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-08-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chloro-4-methoxyphenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-09-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2,5-dichlorophenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-10-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2,5-dimethylphenoxy)-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 910053-11-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2,5-dimethylphenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-12-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(3-fluorophenyl)- (CA INDEX NAME)

RN 910053-13-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 910053-14-4 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(4-fluorophenyl)- (CA INDEX NAME)



- RN 910053-15-5 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(4-methoxyphenyl)- (CA INDEX NAME)

- RN 910053-16-6 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-[2-chloro-5-(trifluoromethyl)phenoxy]-2phenyl-, ethyl ester (CA INDEX NAME)

- RN 910053-17-7 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(5-chloro-2-methylphenoxy)-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 910053-18-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(3-fluoro-4-methylphenyl)-, ethyl ester (CA INDEX NAME)

RN 910053-19-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(3-fluoro-4-methylphenyl)- (CA INDEX NAME)

RN 910053-20-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2,5-dichlorophenoxy)-2-(3-fluoro-4-methylphenyl)-, ethyl ester (CA INDEX NAME)

- RN 910053-21-3 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(2,5-dichlorophenoxy)-2-(3-fluoro-4-methylphenyl)- (CA INDEX NAME)

- RN 910053-22-4 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-[3,5-bis(trifluoromethyl)phenyl]-4-(2-chlorophenoxy)-, ethyl ester (CA INDEX NAME)

- RN 910053-23-5 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-[3,5-bis(trifluoromethyl)phenyl]-4-(2-chlorophenoxy)- (CA INDEX NAME)

- RN 910053-24-6 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-[3,5-bis(trifluoromethyl)phenyl]-4-(2,5-dichlorophenoxy)-, ethyl ester (CA INDEX NAME)

RN 910053-25-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 2-[3,5-bis(trifluoromethyl)phenyl]-4-(2,5-dichlorophenoxy)- (CA INDEX NAME)

RN 910053-26-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[2-chloro-5-(trifluoromethyl)phenoxy]-2phenyl- (CA INDEX NAME)

RN 910053-27-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(5-chloro-2-methylphenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-28-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-[3-fluoro-4-

(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)

- RN 910053-29-1 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-[3-fluoro-4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 910053-30-4 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-(4-chloro-3-methylphenyl)-4-(2-chlorophenoxy)-, ethyl ester (CA INDEX NAME)

- RN 910053-31-5 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-(4-chloro-3-methylphenyl)-4-(2-chlorophenoxy)- (CA INDEX NAME)

- RN 910053-32-6 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(3,4-dimethylphenyl)-, ethyl ester (CA INDEX NAME)

RN 910053-33-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(3,4-dimethylphenyl)-(CA INDEX NAME)

RN 910053-34-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(2-fluorophenyl)- (CA INDEX NAME)

RN 910053-35-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2,4-dimethylphenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-36-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2,4-dichloro-3,5-dimethylphenoxy)-2-phenyl-(CA INDEX NAME)

RN 910053-37-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2,3-dichlorophenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-38-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2,5-difluorophenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-39-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-cyanophenoxy)-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 910053-40-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-cyanophenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-41-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(5-cyano-2-methylphenoxy)-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 910053-42-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(5-cyano-2-methylphenoxy)-2-phenyl- (CA INDEX NAME)

RN 910053-43-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(4-methyl-3-nitrophenyl)-, ethyl ester (CA INDEX NAME)

RN 910053-44-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(4-methyl-3nitrophenyl)- (CA INDEX NAME)

RN 910053-45-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(4-fluoro-3-methoxyphenyl)-, ethyl ester (CA INDEX NAME)

RN 910053-46-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(4-fluoro-3-methoxyphenyl)- (CA INDEX NAME)

RN 910053-47-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(3,4,5-trifluorophenyl)-, ethyl ester (CA INDEX NAME)

RN 910053-48-4 HCAPLUS

# 10/595,734

RN 910053-49-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(3,4-difluorophenyl)-, ethyl ester (CA INDEX NAME)

RN 910053-50-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenoxy)-2-(3,4-difluorophenyl)-(CA INDEX NAME)

RN 910053-51-9 HCAPLUS

RN 910053-52-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[(2-chlorophenyl)methyl]-2-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD 3

(3 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 6 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 6

ACCESSION NUMBER: 2006:232088 HCAPLUS Full-text

DOCUMENT NUMBER: 144:312100

TITLE:

Preparation of substituted pyridines and pyrimidines as vanilloid receptor ligands

INVENTOR(S):

Norman, Mark H.; Pettus, Liping H.; Wang, Xianghong; Zhu, Jiawang

PATENT ASSIGNEE(S): Amgen Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 96 pp.

CODEN: USXXCO DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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US	2006	0058	308				2006	0316			005-				2	0050		<
US 7335672 AU 2005284904			A1		20080226			AU 2005-284904				20050913			<			
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EP	1789	413			A1		2007	0530		EP 2	005-	7961	32		2	0050	913	<
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PRIORITY APPLN. INFO.: US 2004-609718P P 20040913 <--WO 2005-US32660 W 20050913 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): CASREACT 144:312100; MARPAT 144:312100

ED Entered STN: 16 Mar 2006

GI

AB Title compds. I [J = NH, O or S; X = N or CR2; Y = N or CR2, wherein at least]one of X and Y = N; R1 = (un)saturated or partially saturated 5-7 membered monocyclic or 6-11 membered bicyclic ring containing 0-4 heteroatoms, wherein the available carbon atoms are substituted by 0-2 oxo or thioxo groups, the ring may contain addnl. substituents; R2 = halo, (un) substituted alkyl, benzyl, etc.; R3 = CN, alkoxy, (un)substituted alkyl, etc.; R4 = 6-11 membered bicyclic ring containing 0-4 atoms selected from N, O and S, wherein the available carbon atoms are substituted by 0-2 oxo or thioxo groups, the ring may contain addnl. substituents], and their pharmaceutically acceptable salts, are prepared and disclosed as vanilloid receptor ligands. Thus, e.g., II was prepared by coupling of 4-tert-butylphenylboronic acid with 2,4,6trichloropyrimidine followed by subsequent substitutions with 1,4benzodioxane-6-amine and 4-methylpiperazine. Selected compds. of the invention exhibited IC50 values of less than 10 nM in the human VR1 capsaicin antagonist assay. I should prove useful in treating pain and inflammatory conditions.

INCL 514249000; 514256000; 544295000; 544323000

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

	Section cross-	-reference(s):	1, 63		
ΙT	879596-23-3P	879596-30-2P	879596-36-8P	879596-43-7P	879596-49-3P
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879610-79-4P
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879610-79-4P RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of substituted pyridines and pyrimidines as vanilloid receptor ligands)

T 879604-49-6P 879604-54-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of substituted pyridines and pyrimidines as vanilloid receptor ligands)

RN 879604-49-6 HCAPLUS

CN Carbamic acid, [4-[4-[(3-amino-1,2-dihydro-2-oxo-5-quinoxaliny1)oxy]-6-[4-(trifluoromethyl)phenyl]-2-pyrimidinyl]-2-fluorophenyl]-, 1,1-dimethylethyl ester (9C1) (CA INDEX NAME)

- RN 879604-54-3 HCAPLUS
- CN 2(1H)-Quinoxalinone, 3-amino-5-[[2-(4-amino-3-fluorophenyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]oxy|- (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

(2 CITINGS)

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 7 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 7

ACCESSION NUMBER: 2005:1241187 HCAPLUS Full-text

DOCUMENT NUMBER: 144:6804

TITLE: Preparation of 4,5-disubstituted-2-aryl pyrimidines as

C5a receptor ligands

INVENTOR(S): Maynard, George D.; Ghosh, Manuka; Yuan, Jun; Currie,

Kevin S.; Mitchell, Scott; Guo, Qin; Zhao, He

PATENT ASSIGNEE(S): Neurogen Corporation, USA

SOURCE: PCT Int. Appl., 216 pp.
CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO	2005	1104	16		A3		2006	0413									
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		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,
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AU	2005	2441	04		A1		2005	1124		AU 2	005-	2441	04		2	0050	506 <
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US	7482	350			B2		2009	0127									
EP	1745	033			A2		2007	0124		EP 2	005-	7466	87		2	0050	506 <
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CN	1976															0050	506 <
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#### 10/595.734

IN 2006DN07409 A 20070824 IN 2006-DN7409 20061207 <-PRIORITY APPLN. INFO:: US 2004-569222P P 20040508 <-US 2005-049973P P 20050204 <-WO 2005-US15897 W 20050506 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 144:6804; MARPAT 144:6804

ED Entered STN: 24 Nov 2005

GI

AB Title compds. I [Ar = mono-, di-, or tri-substituted Ph, (un)substituted naphthyl or heteroaryl; R1 = H. (un)substituted alkyl, alkenyl, alkynyl, etc.; R2 = OH, CHO, (un) substituted alkyl, etc.; R3 = (un) substituted aryl, cycloalkyl, arylalkyl, etc.], and their pharmaceutically acceptable salts, are prepared and disclosed as C5a receptor ligands. Thus, e.g., II was prepared by substitution of 2,4-dichloro-5-chloromethyl-6- methylpyrimidine (preparation given) with (1S)-methyl-(1,2,3,4-tetrahydronaphthalen-1-yl)amine followed by substitution of the 4-chloro group with methanol and coupling with 2.6-diethylphenylboronic acid. Preferred compds. of the invention bind to C5a receptors with high affinity and exhibit neutral antagonist or inverse activity at C5a receptors. I exhibited IC50 values of 2 µM or less in calcium immobilization assays. The present invention also relates to pharmaceutical compns. comprising such compds., and to the use of such compds. in treating a variety of inflammatory, cardiovascular, and immune system disorders. In addition, the present invention provides labeled 4,5-disubstituted-2arylpyrimidines, which are useful as probes for the localization of C5a receptors.

IC ICM A61K031-505

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

II 869897-83-2P 869888-24-4P 869888-46-0P 869888-60-8P 869888-90-4P 869889-09-8P 869890-15-3P 869890-17-5P 869890-33-5P 869893-36-8P 869891-14-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN

(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of disubstituted arylovrimidines as C5a receptor ligands)

IT	869887-00-3P	869887-01-4P	869887-02-5P	
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# 10/595,734

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869888-94-8P	869888-95-9P	869888-96-0P	869888-97-1P	869888-98-2P
869888-99-3P	869889-00-9P	869889-01-0P		009000-90-2P
			869889-02-1P	
869889-04-3P	869889-05-42	869889-06-5P		
869889-07-6P	869889-08-7P	869889-11-2P	869889-13-4P	869889-15-6P
869889-16-7P	869889-18-9P	869889-20-3P	869889-21-4P	869889-22-5P
869889-24-7P	869889-27-0P	869889-29-2P	869889-32-7P	869889-33-8P
869889-34-9P	869889-36-1P	869889-38-3P	869889-39-4P	
869889-40-7P	869889-42-9P	869889-43-0P	869889-44-1P	869889-45-2P
869889-46-3P	869889-47-4P	869889-48-5P	869889-49-6P	
869889-50-9P	869889-51-0P	869889-52-1P		
869889-53-2P	869889-54-3P	869889-55-4P	869889-56-5P	869889-57-6P
869889-58-7P	869889-59-8P	869889-60-1P	869889-61-2P	869889-62-3P
869889-63-4P	869889-64-5P	869889-65-6P	869889-66-7P	
				869889-67-8P
869889-68-9P	869889-69-0P	869889-70-3P	869889-71-4P	869889-72-5P
869889-73-6P	869889-74-7P	869889-75-8P	869889-76-9P	869889-77-0P
869889-78-1P	869889-79-2P	869889-80-5P	869889-81-6P	869889-82-7P
869889-83-8P				
RL: PAC (Phars	acological acti	vity); SPN (Syn	thetic preparat	ion);

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

#### 10/595.734

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(preparation of disubstituted arvlpvrimidines as C5a receptor ligands)
    869889-84-9P 869889-85-0P 869889-86-1P 869889-87-2P 869889-88-3P
    869889-89-4P 869889-90-7P
                               869889-91-8P 869889-92-9P
                                                           869889-93-0P
    869889-94-1P 869889-95-2P 869889-96-3P 869889-97-4P 869889-98-5P
    869889-99-6P
                869890-00-6P 869890-01-7P
                                             869890-02-8P
                                                           869890-03-9P
    869890-04-0P
                 869890-05-1P 869890-06-2P
                                             869890-07-3P
    869890-08-4P
                 869890-09-5P
                               869890-10-8P
                                             869890-11-9P
    869890-12-0P 869890-13-1P
                               869890-14-2P
    869890-16-4P 869890-18-6P 869890-19-7P 869890-20-0P
                                                           869890-21-1P
    869890-22-2P 869890-23-3P 869890-24-4P 869890-25-5P 869890-26-6P
    869890-27-7P 869890-28-8P 869890-29-9P 869890-30-2P 869890-31-3P
    869890-32-4P 869890-34-6P 869890-35-7P 869890-37-9P 869890-38-0P
    869890-39-1P 869890-40-4P 869890-41-5P 869890-42-6P 869890-43-7P
    869890-44-8P 869890-45-9P 869890-46-0P 869890-47-1P 869890-48-2P
    869890-49-3P 869890-50-6P 869890-51-7P 869890-52-8P 869890-53-9P
    869890-54-0P 869890-55-1P 869890-56-2P 869890-57-3P 869890-58-4P
    869890-59-5P 869890-60-8P 869890-61-9P 869890-62-0P 869890-63-1P
    869890-64-2P 869890-65-3P 869890-66-4P 869890-67-5P 869890-68-6P
    869890-69-7P
                 869890-70-0P 869890-71-1P
                                             869890-72-2P
                                                           869890-73-3P
                                                           869890-78-8P
    869890-74-4P
                 869890-75-5P
                               869890-76-6P
                                            869890-77-7P
    869890-79-9P 869890-80-2P 869890-81-3P 869890-82-4P 869890-83-5P
    869890-84-6P 869890-85-7P 869890-86-8P 869890-87-9P 869890-89-1P
    869890-90-4P 869890-92-6P 869890-93-7P 869890-95-9P 869890-96-0P
    869890-98-2P 869890-99-3P 869891-01-0P 869891-02-1P
    869891-04-3P
                 869891-05-4P 869891-07-6P
    869891-08-7P
                  869891-10-1P
                                869891-11-2P
    869891-13-4P
    RL: FAC (Pharmacological activity); SPN (Synthetic preparation);
    THU (Therapeutic use); BIOL (Biological study); PREP
    (Preparation); USES (Uses)
       (preparation of disubstituted arylpyrimidines as C5a receptor ligands)
    108-95-2, Phenol, reactions 177-11-7, 1,4-Dioxa-8-azaspiro[4.5]decane
TТ
    499-75-2, Carvacrol 576-22-7, 2-Bromo-m-xylene 626-48-2 1068-55-9,
    Isopropylmagnesium chloride 1073-06-9, 3-Bromofluorobenzene 2234-82-4,
    n-Propylmagnesium chloride 6094-60-6,
    1-Benzyl-4-hydroxypiperidine-4-carbonitrile 14205-39-1, Methyl
    3-aminocrotonate 19617-43-7 23357-52-0 57260-71-6 65232-56-6
    65232-57-7
               75336-86-6 100379-00-8
                                        286961-14-6 693286-55-4
    693286-67-8
                869891-49-6
                            936020-25-6
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (preparation of disubstituted arylpyrimidines as C5a receptor ligands)
    147-61-5P 16768-43-7P 23453-90-9P 27771-25-1P 36745-93-4P
    49681-43-8P
                60956-25-4P
                             360575-28-6P
                                           610286-39-0P 610794-15-5P
    610796-21-9P 693285-59-5P 693285-60-8P 693285-65-3P 693285-66-4P
    693285-67-5P 693285-69-7P 693285-70-0P 693285-71-1P 869891-30-5P
    869891-31-6P 869891-32-7P 869891-33-8P 869891-34-9P 869891-35-0P
    869891-36-1P 869891-37-2P 869891-39-4P
                                             869891-40-7P 869891-41-8P
    869891-42-9P
                  869891-43-0P
                                869891-44-1P
    869891-45-2P
                  869891-46-3P
                                869891-47-4P
                                            869891-48-5P
    936020-16-5P
                 1063613-39-7P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
```

RE: RCI (Reactant); SPM (Synthetic preparation); PREP (Preparation); RACI (Reactant or reagent) (preparation of disubstituted arylpyrimidines as C5a receptor ligands)

T 869887-83-2P 869891-14-5P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN

(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of disubstituted arylpyrimidines as C5a receptor ligands) 869887-83-2 HCAPLUS

CN 5-Pyrimidinemethanol, 2-(2,6-diethylphenyl)-4-methoxy-6-methyl-

RN

 $\alpha, \alpha$ -dipropyl- (CA INDEX NAME)

RN 869891-14-5 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-4-methoxy-N,6-dimethyl-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

ΙT	869887-00-3P	869887-01-4P	869887-02-5P
	869887-03-6P	869337-06-9P	869887-08-1P
	869887-12-79	869887-14-9P	869887-16-1P
	869887-18-3P	869887-22-9P	869887-29-6P
	869887-31-0P	869887-39-89	869887-41-2P
	869887-42-3P	869887-43-4P	869887-44-5P
	869887-45-6P	869887-46-79	869887-47-8P
	869887-48-9P	869887-49-0P	869887-50-3P
	869887-51-4P	869887-52-5P	869887-53-6P
	869887-54-7P	869887-55-8P	869887-56-9P
	869887-57-0P	869887-58-1P	869887-59-2P
	869887-60-5P	869337-61-6P	869887-63-8P
	869887-64-9P	869887-65-0P	869887-67-22
	869887-68-3P	869887-70-7P	869887-71-8P
	869887-72-9P	869887-73-09	869887-74-1P
	869887-75-2P	869887-76-3P	869887-77-4P
	869887-78-5P	869887-79-69	869887-80-99
	869887-81-0P	869887-82-1P	869887-84-3P
	869887-85-4P	869887-86-5P	869887-87-62
	869887-88-7P	869887-91-2P	869887-92-3P
	869887-94-5P	869887-95-6P	869887-98-9P
	869388-01-7P	869888-02-8P	869888-03-9P

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869888-04-0P	869888-05-1P	869888-14-2P
869888-16-4P	869888-18-6P	869888-20-0P
869888-22-2P	869888-52-8P	869888-53-9P
869888-54-0P	869888-56-2P	869888-57-3P
869888-58-4P	869888-62-0P	869888-63-1P
869888-64-2P	869888-65-3P	869888-66-4P
863888-69-7P	869888-70-0P	869888-72-2P
869888-74-4P	869888-76-6P	869888-77-72
869888-80-22	869888-81-3P	869888-82-4P
869888-84-6P	869888-85-7P	869888-86-8P
869889-02-1P	869889-04-3P	869889-05-4P
869889-06-5P	869889-38-3P	869889-48-5P
869889-50-92	869889-51-0P	869889-52-1P
869890-04-0P	869890-11-9P	869890-13-1P
869890-14-2P	869891-04-3P	869891-05-4P
869891-10-1P	869891-11-2P	869891-13-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of disubstituted arylpyrimidines as C5a receptor ligands)

RN 869887-00-3 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-dimethylphenyl)-4-methoxy-6-methyl-N,N-dipropyl-(CA INDEX NAME)

- RN 869887-01-4 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-dimethylphenyl)-4-(2-fluorophenyl)-6-methyl-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-02-5 HCAPLUS
- CN 5-Pyrimidinamine, 4-(2,6-difluoropheny1)-2-(2,6-dimethylpheny1)-6-methyl-N,N-dipropy1- (CA INDEX NAME)

RN 869887-03-6 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-dimethylphenyl)-4-methyl-6-phenyl-N,N-dipropyl-(CA INDEX NAME)

RN 869887-06-9 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-dimethylphenyl)-4-(3-methoxyphenyl)-6-methyl-N,N-dipropyl- (CA INDEX NAME)

RN 869887-08-1 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-dimethylphenyl)-4-methyl-6-(3-methylphenyl)-N,N-dipropyl- (CA INDEX NAME)

RN 869887-12-7 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-dimethylphenyl)-4-methyl-N,N-dipropyl-6-[3-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 869887-14-9 HCAPLUS

CN 5-Pyrimidinamine, 4-(3-chlorophenyl)-2-(2,6-dimethylphenyl)-6-methyl-N,N-dipropyl- (CA INDEX NAME)

RN 869887-16-1 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-dimethylphenyl)-4-(3-ethoxyphenyl)-6-methyl-N,N-dipropyl- (CA INDEX NAME)

RN 869887-18-3 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-dichlorophenyl)-4-methoxy-6-methyl-N,N-dipropyl-(CA INDEX NAME)

RN 869887-22-9 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methoxy-6-methyl-N,N-dipropyl-(CA INDEX NAME)

RN 869887-29-6 HCAPLUS

CN Phenol, 3-[5-(dipropylamino)-4-methoxy-6-methyl-2-pyrimidinyl]-2,4dimethyl- (CA INDEX NAME)

RN 869887-31-0 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-difluorophenyl)-4-methoxy-6-methyl-N,N-dipropyl-(CA INDEX NAME)

RN 869887-39-8 HCAPLUS

CN 2-Butanol, 4-[[2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4pyrimidinyl]oxy]-2-methyl- (CA INDEX NAME)

RN 869887-41-2 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[2-(1-methylethoxy)ethoxy]-N,N-dipropyl- (CA INDEX NAME)

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- RN 869887-42-3 HCAPLUS
- CN Benzonitrile, 4-[2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4pyrimidinyl]- (CA INDEX NAME)

- RN 869887-43-4 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-(4-ethoxyphenyl)-6-methyl-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-44-5 HCAPLUS
- CN 1-Propanol, 3-[[2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4pyrimidinyl]oxy]- (CA INDEX NAME)

RN 869887-45-6 HCAPLUS

CN 2-Propanol, 1-[(2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4pyrimidinyl)oxyl- (CA INDEX NAME)

RN 869887-46-7 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[2-(4-morpholinyl)ethoxy]-N,N-dipropyl- (CA INDEX NAME)

RN 869887-47-8 HCAPLUS

CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-N,N-dipropyl-6-[2-(1-pyrrolidinyl)ethoxy]- (CA INDEX NAME)

- RN 869887-48-9 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-[3-(dimethylamino)propoxy]-6methyl-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-49-0 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[[4-(methylthio)phenyl]methoxy]-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-50-3 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[[4-(methylsulfonyl)phenyl]methoxy]-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-51-4 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-[3-[(2R,6S)-2,6-dimethyl-4-morpholinyl]propoxy]-6-methyl-N,N-dipropyl-, rel- (CA INDEX NAME)

Relative stereochemistry.

- RN 869887-52-5 HCAPLUS
- CN 4,5-Pyrimidinediamine, 2-(2,6-diethylphenyl)-6-methyl-N4-[2-(4-morpholinyl)ethyl]-N5,N5-dipropyl- (CA INDEX NAME)

- RN 869887-53-6 HCAPLUS
- CN 4,5-Pyrimidinediamine, 2-(2,6-diethylphenyl)-6-methyl-N4-[2-(1-piperidinyl)ethyl]-N5,N5-dipropyl- (CA INDEX NAME)

- RN 869887-54-7 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-[[1-(phenylmethyl)-4-piperidinyl]oxy]-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-55-8 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[(3-methyl-3-oxetanyl)methoxy]-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-56-9 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[(1-methyl-3-piperidinyl)oxy]-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-57-0 HCAPLUS
- CN 2-Butanol, 3-[[2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4pyrimidinyl]oxy]-, (2S,3S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 869887-58-1 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[2-(1-methyl-2-pyrrolidinyl)ethoxy]-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-59-2 HCAPLUS
- CN 2-Butanol, 3-[[2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4pyrimidinyl]oxy]-, (2R,3R)- (CA INDEX NAME)

- RN 869887-60-5 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[(1-methyl-4-piperidinyl)oxy]-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-61-6 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-(4-piperidinyloxy)-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-63-8 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-[2-(dimethylamino)ethoxy]-6methyl-N,N-dipropyl- (CA INDEX NAME)

$$(n-\Pr) \ 2N \qquad Ne \\ \text{Me} \ 2N-CH \ 2-CH \ 2$$

RN 869887-64-9 HCAPLUS

CN 2-Butanol, 3-[[2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4pyrimidinyl]oxy]-, (2R,3S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 869887-65-0 HCAPLUS

CN Cyclopentanol, 2-[[2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4pyrimidinyl]oxy]-, (1S,2R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 869887-67-2 HCAPLUS

CN Acetamide, N-[2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4pyrimidinyl]-2-hydroxy-N-methyl- (CA INDEX NAME)

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- RN 869887-68-3 HCAPLUS
- CN Propanoic acid, 3-[[2-(2,6-diethylphenyl)-5-(dipropylamino)-6-methyl-4-pyrimidinyl]oxy]-2,2-dimethyl- (CA INDEX NAME)

- RN 869887-70-7 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[(1-methyl-3-pyrrolidinyl)oxyl-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-71-8 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-N,N-dipropyl-6-(3-pyridinyloxy)- (CA INDEX NAME)

- RN 869887-72-9 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[2-(4-oxido-4-

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morpholinyl)ethoxy]-N, N-dipropyl- (CA INDEX NAME)

- RN 869887-73-0 HCAPLUS
- CN 5-Pyrimidinamine, 2-(2,6-diethylphenyl)-4-methyl-6-[(4-methylphenyl)methoxy]-N,N-dipropyl- (CA INDEX NAME)

- RN 869887-74-1 HCAPLUS
- CN 4,5-Pyrimidinediamine, 2-(2,6-diethylphenyl)-N4-[3-(dimethylamino)-2,2-dimethylpropyl]-6-methyl-N5,N5-dipropyl- (CA INDEX NAME)

- RN 869887-75-2 HCAPLUS
- CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N,4-dimethyl-6-[2-(1-methyl-thoxy)ethoxy]-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

- RN 869887-76-3 HCAPLUS
- CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N-(diphenylmethyl)-4methoxy-N,6-dimethyl- (CA INDEX NAME)

- RN 869887-77-4 HCAPLUS
- CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-4-methoxy-N,6-dimethyl-N-(1,2,3,4-tetrahydro-1-naphthalenyl)- (CA INDEX NAME)

- RN 869887-78-5 HCAPLUS
- CN Benzoic acid, 4-[[[[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-pyrimidinyl]methyl]methylamino]methyl]-, methyl ester (CA INDEX NAME)

- RN 869887-79-6 HCAPLUS
- CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N-[(3-ethoxyphenyl)methyl]-4-methoxy-N,6-dimethyl- (CA INDEX NAME)

- RN 869887-80-9 HCAPLUS
- CN Pyrimidine, 2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-(1-propylbutyl)-(CA INDEX NAME)

- RN 869887-81-0 HCAPLUS
- CN Pyrimidine, 2-(2,6-diethylphenyl)-5-(1-ethoxybutyl)-4-methoxy-6-methyl-(CA INDEX NAME)

- RN 869887-82-1 HCAPLUS
- CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-4-ethoxy-N,6-dimethyl-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

Absolute stereochemistry.

- RN 869887-84-3 HCAPLUS
- CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N,4-dimethyl-6-[2-(1-methylethoxy)ethoxy]-N-(1,2,3,4-tetrahydro-1-naphthalenyl)- (CA INDEX NAME)

- RN 869887-85-4 HCAPLUS
- CN 5-Pyrimidinemethanamine, 4-methoxy-2-[3-(methoxymethyl)phenyl]-N,6-dimethyl-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

RN 869887-86-5 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-4-[(2-methoxyethyl)methylamino)-N,6-dimethyl-N-(1,2,3,4-tetrahydro-l-naphthalenyl)- (CA INDEX NAME)

RN 869887-87-6 HCAPLUS

CN 5-Pyrimidinemethanamine, 4-(cyclobutyloxy)-2-(2,6-diethylphenyl)-N,6-dimethyl-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

RN 869887-88-7 HCAPLUS

CN 5-Pyrimidinemethanamine, 4-(cyclopentyloxy)-2-(2,6-diethylphenyl)-N,6-dimethyl-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 869887-91-2 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N,4-dimethyl-6-(1-methylethoxy)-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 869887-92-3 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N,4-dimethyl-6-(2methylpropoxy)-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

RN 869887-94-5 HCAPLUS

CN 3-Quinolinemethanamine, N-[[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-pyrimidinyl]methyl]-N-methyl- (CA INDEX NAME)

RN 869887-95-6 HCAPLUS

CN Imidazo[1,2-a]pyridine-2-methanamine, N-[(2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-pyrimidinyl]methyl]-N,8-dimethyl- (CA INDEX NAME)

RN 869887-98-9 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-4-[(18)-2-methoxy-1-methylethoxy]-N,6-dimethyl-N-[(18)-1,2,3,4-tetrahydro-1-naphthalenyl]-(CA INDEX NAME)

- RN 869888-01-7 HCAPLUS
- CN 5-Pyrimidinemethanamine, 4-(butylmethylamino)-2-(2,6-diethylphenyl)-N,6-dimethyl-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

Absolute stereochemistry.

- RN 869888-02-8 HCAPLUS
- CN Ethanol, 2-[[2-(2,6-diethylphenyl)-6-methyl-5-[[methyl](1S)-1,2,3,4tetrahydro-1-naphthalenyl]amino]methyl]-4-pyrimidinyl]methylamino]- (CA INDEX NAME)

RN 869888-03-9 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-4-[(2-methoxyethyl)amino]-N,6-dimethyl-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 869888-04-0 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N,4-dimethyl-6-(propylamino)-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

RN 869888-05-1 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N,4-dimethyl-6-(methylpropylamino)-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 869888-14-2 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-4-{(2-methoxy-1methylethyl)amino]-N,6-dimethyl-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]-(CA INDEX NAME)

- RN 869888-16-4 HCAPLUS
- CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N,4-dimethyl-6-[[[(2S)-tetrahydro-2-furanyl]methyl]amino]-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

Absolute stereochemistry.

- RN 869888-18-6 HCAPLUS
- CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N,4-dimethyl-6-[[[(2R)-tetrahydro-2-furanyl]methyl]amino]-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

- RN 869888-20-0 HCAPLUS
- CN 2-Propanol, 1-[[2-(2,6-diethylphenyl)-6-methyl-5-[[methyl[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]amino]methyl]-4-pyrimidinyl]amino] (CA INDEX NAME)

Absolute stereochemistry.

- RN 869888-22-2 HCAPLUS
- CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-N,4-dimethyl-6-phenoxy-N[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

RN 869888-52-8 HCAPLUS

CN 4-Pyrimidinecarboxylic acid, 2-(2,6-diethylphenyl)-6-methyl-5-[[methyl](1S)-1,2,3,4-tetrahydro-1-naphthalenyl]amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 869888-53-9 HCAPLUS

CN 4-Pyrimidineethanol, 2-(2,6-diethylphenyl)-6-methyl-5-[[methyl[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]amino]methyl]-α-phenyl- (CA INDEX NAME)

RN 869888-54-0 HCAPLUS

CN 4-Pyrimidinecarboxamide, 2-(2,6-diethylphenyl)-6-methyl-5-[[methyl[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]amino]methyl]- (CA INDEX NAME)

- RN 869888-56-2 HCAPLUS
- CN Ethanone, 1-[4-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-pyrimidinyl]butyl]-1-piperazinyl]- (CA INDEX NAME)

- RN 869888-57-3 HCAPLUS
- CN 4-Piperidinemethanol, 1-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5pyrimidinyl]butyl]- (CA INDEX NAME)

RN 869888-58-4 HCAPLUS

CN 4-Piperidineethanol, 1-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-pyrimidinyl]butyl]- (CA INDEX NAME)

RN 869888-62-0 HCAPLUS

CN Pyrimidine, 2-(2,6-diethylphenyl)-5-[1-(4-ethyl-1-piperazinyl)butyl]-4methoxy-6-methyl- (CA INDEX NAME)

RN 869888-63-1 HCAPLUS

CN Pyrimidine, 5-[1-(4-cyclopentyl-1-piperazinyl)butyl]-2-(2,6-diethylphenyl)-4-methoxy-6-methyl- (CA INDEX NAME)

RN 869888-64-2 HCAPLUS

CN 1-Piperazineethanol, 4-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-pyrimidinyl]butyl]- (CA INDEX NAME)

- RN 869888-65-3 HCAPLUS
- CN Morpholine, 4-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5pyrimidinyl]butyl]- (CA INDEX NAME)

- RN 869888-66-4 HCAPLUS
- CN Morpholine, 4-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5pyrimidinyl]butyl]-2,6-dimethyl-, (2R,6S)-rel- (CA INDEX NAME)

Relative stereochemistry.

- RN 869888-69-7 HCAPLUS
- CN Ethanamine, 2-[[2-(2,6-diethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]oxy]-N,N-dimethyl- (CA INDEX NAME)

- RN 869888-70-0 HCAPLUS
- CN Morpholine, 4-[2-[[2-(2,6-diethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]oxy]ethyl]- (CA INDEX NAME)

RN 869888-72-2 HCAPLUS

CN 1-Piperazineacetic acid, 4-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5pyrimidinyl]butyl]-, ethyl ester (CA INDEX NAME)

RN 869888-74-4 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-pyrimidinyl]butyl]-, ethyl ester (CA INDEX NAME)

RN 869888-76-6 HCAPLUS

CN Ethanone, 1-[4-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-pyrimidinyl]butyl]-3-methyl-1-piperazinyl]- (CA INDEX NAME)

RN 869888-77-7 HCAPLUS

CN Ethanone, 1-[4-[1-[2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5pyrimidinyl]butyl]-3,5-dimethyl-1-piperazinyl]- (CA INDEX NAME)

RN 869888-80-2 HCAPLUS

CN Pyrimidine, 2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-[1-[4-[(1-methylethyl)sulfonyl]-1-piperazinyl]butyl]- (CA INDEX NAME)

$$\text{i-Pr} = \bigcup_{N=0}^{\infty} \bigcup_{N=0}^{N-Pr} \bigcup_{N=0}^{Me} \bigcup_{N=0}^{N} \bigcup_{N=0}^{N-Pr} \bigcup_$$

RN 869888-81-3 HCAPLUS

CN Pyrimidine, 2-(2,6-diethylphenyl)-4-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-6-[2-(1-pyrrolidinyl)ethoxy]- (CA INDEX NAME)

RN 869888-82-4 HCAPLUS

CN Pyrimidine, 2-(2,6-diethylphenyl)-4-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-6-[2-(1-piperidinyl)ethoxy]- (CA INDEX NAME)

- RN 869888-84-6 HCAPLUS
- CN Morpholine, 4-[2-[[2-(2,6-diethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]oxy]propyl]- (CA INDEX NAME)

- RN 869888-85-7 HCAPLUS
- CN Morpholine, 4-[3-[[2-(2,6-diethylpheny1)-6-methyl-5-[[2-methyl-5-(1methylethyl)phenoxy]methyl]-4-pyrimidinyl]oxy]propyl]- (CA INDEX NAME)

- RN 869888-86-8 HCAPLUS
- $\texttt{CN} \qquad 1-\texttt{Propanamine, 2-[[2-(2,6-diethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methyl-5-($

methylethyl)phenoxy]methyl]-4-pyrimidinyl]oxy]-N,N-diethyl- (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Me} & \text{Me} \\ i\text{-Pr} & \text{CH}_2\text{-CH} - \text{O} & \text{N} \\ \text{Et}_2\text{N-CH}_2\text{-CH} - \text{O} & \text{N} \\ \text{Me} & \text{Et} \end{array}$$

- RN 869889-02-1 HCAPLUS
- CN Benzamide, 4-[[2-(2,6-diethylphenyl)-6-methyl-5-[[methyl[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]amino]methyl]-4-pyrimidinyl]oxyj- (CA INDEX NAME)

Absolute stereochemistry.

- RN 869889-04-3 HCAPLUS
- CN Benzamide, 4-[[2-(2,6-diethylphenyl)-6-methyl-5-[[methyl[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]amino]methyl]-4-pyrimidinyl]oxy]-2-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.

RN 869889-05-4 HCAPLUS

CN 1-Azetidinecarboxylic acid, 3-[[2-(2,6-diethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]oxy]-, ethenyl ester (CA INDEX NAME)

RN 869889-06-5 HCAPLUS

CN Pyrimidine, 4-(3-azetidinyloxy)-2-(2,6-diethylphenyl)-6-methyl-5-[[2methyl-5-(1-methylethyl)phenoxy]methyl]- (CA INDEX NAME)

RN 869889-38-3 HCAPLUS

CN 5-Pyrimidinemethanamine, 2-(2,6-diethylphenyl)-4-(dimethylamino)-N,6-dimethyl-N-[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 869889-48-5 HCAPLUS

CN 1-Propanol, 2-[[2-(2,6-diethylphenyl)-6-methyl-5-[[methyl[(1S)-1,2,3,4-tetrahydro-1-naphthalenyl]amino]methyl]-4-pyrimidinyl]amino] (CA INDEX NAME)

Absolute stereochemistry.

RN 869889-50-9 HCAPLUS

CN Pyrimidine, 2-(2,6-diethylphenyl)-4-(1-methylethoxy)-5-(1-propylbutyl)-(CA INDEX NAME)

CN Benzamide, 4-[[2-(2,6-diethylphenyl)-5-(1-propylbutyl)-4pyrimidinyl]amino]-2-hydroxy- (CA INDEX NAME)

- RN 869889-52-1 HCAPLUS
- CN 4-Pyrimidinamine, 2-(2,6-diethylphenyl)-N,N-dimethyl-5-(1-propylbutyl)-(CA INDEX NAME)

- RN 869890-04-0 HCAPLUS
- CN Pyrimidine, 2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]- (CA INDEX NAME)

- RN 869890-11-9 HCAPLUS
- CN Glycine, N-[2-(2,6-diethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]-N-methyl- (CA INDEX NAME)

$$i-Pr$$
 $Ho_2C-CH_2$ 
 $Ho_2C-CH_2$ 

RN 869890-13-1 HCAPLUS

CN D-Valine, N-[2-(2,6-diethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 869890-14-2 HCAPLUS

CN D-Valine, N-[2-(2,6-diethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 869891-04-3 HCAPLUS

CN 1-Pyrrolidineacetamide, 3-[[2-(2,6-dimethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]methylamino]-, (3S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 869891-05-4 HCAPLUS

CN 1-Pyrrolidineacetamide, 3-[[2-(2,6-dimethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]methylamino]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 869891-10-1 HCAPLUS

CN 1-Pyrrolidineacetamide, 3-[[2-(2,6-dimethylphenyl)-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]oxy]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 869891-11-2 HCAPLUS

CN 1-Pyrrolidineacetamide, 3-[(2-(2,6-dimethylphenyl)-6-methyl-5-[(2-methyl-5-(1-methyl)phenoxy]methyl]-4-pyrimidinyl]oxy]-, (3S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 869891-13-4 HCAPLUS

CN 1-Azetidineacetamide, 3-[[2-(2,6-dimethylphenyl)-6-methyl-5-[(2-methyl-5-(1-methylethyl)phenoxy]methyl]-4-pyrimidinyl]oxy]- (CA INDEX NAME)

IT 869891-49-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of disubstituted arylpyrimidines as C5a receptor ligands)

RN 869891-49-6 HCAPLUS

CN 5-Pyrimidinemethanol, 2-(2,6-diethylphenyl)-4-methoxy-6-methyl-α-

propyl- (CA INDEX NAME)

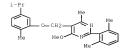
IT 869891-43-0P 869891-44-1P 869891-46-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

- (preparation of disubstituted arylpyrimidines as C5a receptor ligands) RN 869891-43-0 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-(2,6-diethylphenyl)-4-methoxy-6-methyl-, methyl ester (CA INDEX NAME)

- RN 869891-44-1 HCAPLUS
- CN Pyrimidine, 2-(2,6-diethylphenyl)-4-methoxy-6-methyl-5-(1-propyl-1-buten-1-yl)- (CA INDEX NAME)

- RN 869891-46-3 HCAPLUS
- CN Pyrimidine, 2-(2,6-dimethylphenyl)-4-methoxy-6-methyl-5-[[2-methyl-5-(1-methylethyl)phenoxy]methyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 1 RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 8 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 8

ACCESSION NUMBER: 2002:888719 HCAPLUS Full-text

DOCUMENT NUMBER: 137:384854

TITLE: Preparation of diaryl ureas as antiinflammatory agents

INVENTOR(S): Cirillo, Pier F.; Goldberg, Daniel R.; Hammach, Abdelhakim; Moss, Neil; Regan, John Robinson Boehringer Ingelheim Pharmaceuticals, Inc., USA

PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.				KIND DATE			APPLICATION NO.					DATE							
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT ED Entered STN: 22 Nov 2002

GΤ

AB The title diaryl ureas, useful in pharmaceutic compns. for treating a cytokine mediated diseases or conditions involving inflammation such as chronic inflammatory diseases, were prepared Thus, treating 4-(2-chloropyrimidin-4-yloxy)naphthalen-1-ylamine with Et3N in DMF followed by addition of Et4NCN, and treatment of the resulting nitrile with phospene, and reacting the intermediate with 5-text-butyl-o-anisidine afforded the urea I.

IC ICM C07D239-34

IT

ICS A61K031-505; C07D251-42; C07D239-47; C07D417-12; C07D401-12; C07D231-40; A61P029-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1

DCCCTOH CTODD	rererence (b).	_			
285983-44-0P	473269-90-8P		473269-96-4P	473271-63-5P	473271-65-7P
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473271-91-9P	473271-96-4P		473272-06-9P	473272-08-1P	473272-09-2P
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476011-39-9P	476011-41-3P		476011-43-5P	476011-45-7P	
476011-47-9P	476011-49-1P		476011-51-5P	476011-53-7P	476011-55-9P
476012-73-4P					

RL: FAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of diaryl ureas as antiinflammatory agents)

T 476009-78-6P 476009-80-0P 476009-82-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of diaryl ureas as antiinflammatory agents)

RN 476009-78-6 HCAPLUS CN Urea, N-[5-(1,1-dimet

Urea, N-[5-(1,1-dimethylethyl)-2-methoxyphenyl]-N'-[4-[[2-(2-methoxyphenyl)-4-pyrimidinyl]oxy]-1-naphthalenyl]- (CA INDEX NAME)

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PAGE 2-A

476009-80-0 HCAPLUS

RN

CN Urea, N-[5-(1,1-dimethylethyl)-2-methoxyphenyl]-N'-[4-[[2-(3-methoxyphenyl)-4-pyrimidinyl]oxy]-1-naphthalenyl]- (CA INDEX NAME)

- RN 476009-82-2 HCAPLUS
- CN Urea, N-[5-(1,1-dimethylethyl)-2-methoxyphenyl]-N'-[4-[(2-phenyl-4pyrimidinyl)oxy]-1-naphthalenyl]- (CA INDEX NAME)

- RN 476011-45-7 HCAPLUS
- CN Methanesulfonamide, N-[5-(1,1-dimethylethyl)-2-methoxy-3-[[[[4-[[2-(2-methoxyphenyl)-4-pyrimidinyl])oxy]-1-naphthalenyl]amino]carbonyl]amino]phenyl]- (CA INDEX NAME)

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PAGE 2-A

OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS

RECORD (14 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 9 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 9

ACCESSION NUMBER: 2002:220582 HCAPLUS Full-text

136:247582 DOCUMENT NUMBER:

TITLE:

Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes,

and Alzheimer's disease

INVENTOR(S): Bebbington, David; Binch, Havley; Knegtel, Ronald; Golec, Julian M. C.; Patel, Sanjay; Charrier, Jean-Damien; Kay, David; Davies, Robert; Li, Pan;

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PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 355 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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ASSIGNMENT H	ISTORY FO	R IIS	PATENT	AVATLABLE		SIIS DISPLAY		_3000104	•

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 136:247582

ED Entered STN: 22 Mar 2002

GI

AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un) substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy: Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)saturated fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring containing 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)20, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6) 2NR6CO2, CR6:NNR6, CR6:NO, C(R6) 2NR6NR6, C(R6) 2NR6SO2NR6, C(R6) 2NR6CONR6, or CONR6; R = H or (un)substituted aliphatic, (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliphatic), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliphatic), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliphatic group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepared as protein kinase inhibitors, especially as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (pyrimidinyl)pyrazolamines and indazolamines I [wherein Z1 and Z2 = N; Z3 = CRx; Z4 = CRy; G = Ring D]. Examples include data for approx. 300 invention compds. prepared by a variety of synthetic methods and bioassay results for the inhibition of GSK- $\beta$ 3, Aurora-2, ERK, and Src. For instance, the N-(4pyrimidinyl)-3-pyrazolamine II was prepared and exhibited Ki values of < 0.1  $\mu M$  for glycogen synthetase kinase 3 $\beta$  (GSK-3 $\beta$ ) and 0.1-1.0  $\mu M$  for Aurora-2. IC ICM C07D403-12

ICM C07B403-12 (C07D401-14; A61K031-506; A61K031-4155; A61P035-00; C07D403-14; C07D405-14; C07D521-00; C07D493-04; C07D495-04; C07D471-04; C07D473-16

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

607-68-1P, 2,4-Dichloroquinazoline 41339-17-7P,
5-Nitro-1H-indazol-3-ylamine 61272-71-7P, 5-Bromo-1H-indazol-3-ylamine
61272-72-8P, 5-Fluoro-1H-indazol-3-ylamine 404826-17-1P,
2-(2-Trifluoromethylphenyl)pyrido[2,3-d][1,3]oxazin-4-one 404826-18-2P,
2-(2-Trifluoromethylbenzoylamino)nicotinamide 404826-19-3P,
4-Chloro-2-(3,5-dichlorophenyl)quinazoline 404826-26-2P,
4-(4-Methylpiperidin-1-yl)pyrimidin-2-yl|(5-methyl-2H-pyrazol-3-yl)amine 404827-60-7P, 7-Fluoro-1H-indazol-3-ylamine 404827-65-2P,
5,7-Difluoro-1H-indazol-3-ylamine 404827-75-4P,

6-Fluoro-1H-indazol-3-ylamine 404827-76-5P,

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7-Fluoro-6-trifluoromethyl-1H-indazol-3-ylamine 404827-77-6P,
6-Bromo-1H-indazol-3-ylamine 404827-78-7P, 4-Fluoro-1H-indazol-3-ylamine
404827-79-8P, 4-Pvrrol-1-vl-1H-indazol-3-vlamine 404827-80-1P,
4-Chloro-5,6-dimethyl-2-(2-trifluoromethylphenyl)pyrimidine
404827-81-2P, 4-Chloro-2-(2-chlorophenyl)-5,6-dimethylpyrimidine
404827-82-3P, 4-Chloro-6-methyl-2-(2-trifluoromethylphenyl)pyrimidine
404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2-
trifluoromethylphenyl)pyrimidine
4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-85-6P.
4-Chloro-2-(2,4-dichlorophenvl)-5,6-dimethylpyrimidine
404827-86-7P, 4-Chloro-6-(2-chloropheny1)-2-(2-
trifluoromethylphenyl)pyrimidine
                                 404827-87-89,
4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine
404827-88-9P, 4-Chloro-6-pyridin-2-yl-2-(2-
trifluoromethylphenyl)pyrimidine 404827-89-0P,
6-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3-
d|pyrimidine 404827-90-3P, 7-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-
5, 6, 7, 8-tetrahydropyrido[3, 4-d]pyrimidine 404827-91-4P,
4-Chloro-2-(4-fluoro-2-trifluoromethylphenyl)quinazoline 404827-92-5P,
4-Chloro-2-(2-chloro-5-trifluoromethylphenyl)quinazoline 404827-93-6P,
4-Chloro-2-(2-chloro-4-nitrophenyl)quinazoline 404827-94-7P,
4-Chloro-2-(2-trifluoromethylphenyl)quinazoline 404827-95-8P,
4-Chloro-2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidine
404827-96-9P, 4-Chloro-2-(2-chlorophenyl)-6,7,8,9-tetrahydro-5H-
cycloheptapyrimidine 404827-97-0P.
4-Chloro-2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidine 404827-98-1P,
4-Chloro-8-methoxy-2-(2-trifluoromethylphenyl)quinazoline 404828-00-8P,
2-(4-Chloroquinazolin-2-yl)benzonitrile 404828-01-9P,
6-Methyl-2-(2-trifluoromethylphenyl)-3H-pyrimidin-4-one
404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-
pyrimidin-4-one 404828-03-1P, 2-(2-Chloro-5-trifluoromethylphenyl)-3H-quinazolin-4-one 404828-04-2P,
2-(4-Fluoro-2-trifluoromethylphenyl)-3H-quinazolin-4-one 404828-05-3P,
2-(4-Nitro-2-chlorophenyl)-3H-quinazolin-4-one 404828-06-4P,
2-(5-Fluoro-2-trifluoromethylphenyl)-3H-quinazolin-4-one
                                                          404828-30-4P.
(2-Chloroquinazolin-4-v1) (5-methvl-1H-pvrazol-3-v1) amine
404829-31-8P, (6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-
pvrazol-3-vl)amine 404829-59-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (intermediate; preparation of heterocyclylpyrazolamines and analogs as
   protein kinase inhibitors for treatment of cancer, diabetes,
  and Alzheimer's disease)
404826-28-49, [2-(2-Chlorophenvl)-5,6-dimethylpyrimidin-4-vl](5-
Methyl-2H-pyrazol-3-v1)amine 404826-29-5P,
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](1H-
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fluoro-1H-indazol-3-yl)amine 404826-33-1P,
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(7-Fluoro-1H-indazol-3-vl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
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(5-Fluoro-1H-indazol-3-vl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
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(5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-yl]amine 404826-38-6P,
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[6-Benzv1-2-(2-trif1uoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3-
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tetrahydropyrido[4,3-d]pyrimidin-4-vllamine 404826-44-4P.
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[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
yl)amine 404826-52-4P,
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
indazol-3-yl)amine 404826-53-5P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
yl](7-fluoro-1H-indazol-3-yl)amine 404926-55-7F,
(5,7-Difluoro-1H-indazol-3-vl) [5,6-Dimethyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-56-8P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
          404826-57-9P.
[2-(2-Chlorophenv1)-5,6-dimethylpvrimidin-4-v1](7-fluoro-1H-indazol-3-
yl)amine
          404826-58-0P,
[2-(2-Chlorophenv1)-5,6-dimethylpyrimidin-4-v1](5-fluoro-1H-indazol-3-
         404826-59-1P,
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-60-4P, (5-Methyl-2H-pyrazol-3-yl)[2-(2-methylphenyl)quinazolin-4-
yl]amine 404826-61-5P, [2-(2,4-Difluorophenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-vl)amine 404826-62-6P,
[2-(2,5-Dimethoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404826-63-7P, [2-(2-Chlorophenyl)guinazolin-4-v1](5-methyl-2H-pyrazol-3-
         404826-64-8P, [2-(2-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-
pvrazol-3-vl)amine 404826-65-9P,
[2-(2,6-Dimethylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404826-66-0P, [2-(2-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404826-67-1P, [2-(2,3-Dimethylphenyl)quinazolin-4-yl](5-methyl-
yl)amine
2H-pyrazol-3-vl)amine
                      404826-68-2P.
(5-Methyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-69-3P, [2-(2-Ethylphenyl)quinazolin-4-yl](5-Methyl-2H-
pvrazo1-3-v1)amine 404826-70-6P,
(2-Biphenyl-2-ylquinazolin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404826-71-7P, [2-(2-Hydroxyphenyl)quinazolin-4-yl](5-Methyl-2H-pyrazol-3-
yl)amine 404826-72-8P, [2-(2-Ethoxyphenyl)quinazolin-4-yl](5-Methyl-2H-
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pvrazol-3-vl)amine 404826-73-9P,
[5-(Thiophen-2-yl)-2H-pyrazol-3-yl][2-(2-trifluoromethylphenyl)quinazolin-
4-v1]amine 404826-74-0P, [4-(Thiophen-2-v1)-2H-pvrazol-3-v1][2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-75-1P,
(4-Phenyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
yl]amine 404826-76-2P, (5-tert-Butyl-2H-pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                             404826-77-3P.
(5-Phenyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-78-4P, (4.5-Diphenvl-2H-pyrazol-3-vl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                             404826-79-5P,
(4-Carbamoy1-2H-pyrazo1-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-80-8P, (2H-Pvrazol-3-vl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-81-9P.
(5-Hydroxy-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-82-0P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(2-
vl]amine
trifluoromethylphenyl)guinazolin-4-vllamine 404826-83-1P.
(5-Methoxymethyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
         404826-84-2P, (1H-Indazol-3-yl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-vllamine
                                            404826-85-3P,
(4-Chloro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-86-4P, (5-Fluoro-1H-indazol-3-y1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-87-5P,
(7-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)guinazolin-4-
vl]amine
          404826-88-6P, (5-Methyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                            404826-89-7P.
[2-(2,6-Dichlorophenyl)quinazolin-4-yl](5-fluoro-1H-indazol-3-yl)amine
404826-90-0P, [2-(2-Chlorophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine
404826-91-1P, (5-Trifluoromethyl-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-92-2P.
(4-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)guinazolin-
4-yl]amine
           404826-93-3P, [2-(2,6-Dichlorophenyl)quinazolin-4-yl](1H-
indazol-3-vl)amine 404826-94-4P,
(1H-Indazol-3-yl)[2-(2-methylphenyl)quinazolin-4-yl]amine 404826-95-5P,
(7-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-
4-y1]amine 404826-96-6P, (6-Trifluoromethyl-1H-indazol-3-y1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-98-8P.
(5,7-Difluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-99-9P, (4-Pyrrol-1-yl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vl]amine
                                            404827-00-5P,
(5-Amino-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404827-01-6P, [2-(2-Chlorophenyl)guinazolin-4-v1](7-fluoro-1H-indazol-3-
yl)amine
          404827-02-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-fluoro-1H-
indazol-3-vl)amine 404827-03-8P,
[2-(2-Chlorophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-04-9P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-trifluoromethyl-1H-
indazol-3-vl)amine 404827-05-0P,
[2-(2-Cvanophenyl)guinazolin-4-yl](1H-indazol-3-yl)amine 404827-07-2P.
(6-Chloro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-
         404827-08-3P, (7-Fluoro-6-trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine 404827-09-4P,
(6-Bromo-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404827-10-7P, [2-(2,4-Bis-trifluoromethylphenyl)quinazolin-4-yl](5,7-
difluoro-1H-indazol-3-yl)amine 404827-11-8P,
(5,7-Difluoro-1H-indazo1-3-y1)[2-(4-fluoro-2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-12-9P,
[2-(2-Bromophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-13-0P, (5,7-Difluoro-1H-indazol-3-v1)[2-(5-fluoro-2-
trifluoromethylphenyl)guinazolin-4-yllamine 404827-14-1P.
[2-(2,4-Dichlorophenyl)quinazolin-4-yl](5,7-Difluoro-1H-indazol-3-yl)amine
404827-15-2P, [2-(2-Chloro-5-trifluoromethylphenyl)quinazolin-4-yl](5,7-
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Difluoro-1H-indazol-3-v1)amine
                               404827-16-3P,
(4-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine 404827-18-5P 404827-20-9P.
(5-Fluoro-1H-indazol-3-yl)[8-methoxy-2-(2-trifluoromethylphenyl)quinazolin-
4-vl]amine trifluoroacetate 404827-21-0P 404827-23-2P,
(5,7-Difluoro-1H-indazol-3-yl)[8-methoxy-2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine trifluoroacetate
404827-24-3P, [2-(2-Chloropyridin-3-y1)quinazolin-4-y1](5,7-Difluoro-1H-
indazo1-3-v1)amine
                    404827-26-5P.
[2-(4-Amino-2-chlorophenyl)quinazolin-4-yl](5,7-Difluoro-1H-indazol-3-
vl)amine
          404827-27-6P, (4,5,6,7-Tetrahydro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                             404827-28-7P.
(1H-Pyrazolo [4,3-b]pyridin-3-yl) [2-(2-trifluoromethylphenyl) quinazolin-4-
vllamine
          404827-29-8P, (1H-Pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                              404827-30-1P,
(6-Methyl-1H-pyrazolo[3,4-b]pyridin-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-vl]amine
                                            404827-31-2P,
(6-Oxo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-32-3P,
[6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-
3-v1)amine
            404827-33-49,
(5-Furan-2-y1-2H-pyrazo1-3-y1) [6-methy1-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-vl]amine
                                             404827-34-5P,
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
         404827-35-6P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-
vl)amine
methyl-2H-pyrazol-3-yl)amine
                             404827-36-7P
                                             404827-37-8P,
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-
          404827-38-9P, (5,7-Difluoro-1H-indazol-3-y1)[2-(2-
vllamine
trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-yl]amine
[2-(2-Chlorophenvl)pvrido[2,3-d]pvrimidin-4-vl](1H-indazol-3-vl)amine
bis(trifluoroacetate) 404827-41-4P,
(5-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine 404827-42-5P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-
indazol-3-yl)amine 404827-43-6P,
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cvclopentapyrimidin-4-vllamine 404827-44-7P,
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cvclopentapyrimidin-4-vllamine 404827-45-8P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cvclopentapyrimidin-4-vllamine 404827-46-9P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-
          404827-47-0P, [2-(2-Chlorophenvl)-6,7-dihvdro-5H-
cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine 404827-48-1P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-vl](5,7-difluoro-
1H-indazol-3-vl)amine 404827-49-2P,
(1H-Indazol-3-y1)[2-(2-trifluoromethylpheny1)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vl]amine
                                        404827-50-5P,
(7-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahvdrocvclooctapvrimidin-4-vllamine 404827-51-6P.
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vllamine
                                       404827-52-7P,
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
          404827-53-8P,
vl)amine
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-yl)amine
            404827-54-9P, (6-Fluoro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine 404827-55-0P,
3-[[2-(2-Trifluoromethylphenyl)quinazolin-4-yl]amino]-1H-indazole-5-
carboxvlic acid methyl ester 404827-56-1P,
(5-Methyl-2H-pyrazol-3-yl)[2-(2-naphthyl-1-yl)quinazolin-4-yl]amine
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404827-58-3P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](7-fluoro-1H-
indazol-3-yl)amine bis(trifluoroacetate) 404827-62-9P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate) 404827-64-1P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate) 404827-67-4P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate) 404827-70-9P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](7-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                                404827-72-1P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
                               404827-74-3P,
vl)amine bis(trifluoroacetate)
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                               404828-07-5P.
(1H-Indazol-3-vl)(2-phenylquinazolin-4-vl)amine
                                                404828-08-6P,
(5-Methyl-2H-pyrazol-3-yl)(2-phenyl-5,6,7,8-tetrahydroguinazolin-4-
v1) amine 404828-09-7P, (5-Methv1-2H-pvrazol-3-v1) (2-phenv1-6,7,8,9-
tetrahydro-5H-cycloheptapyrimidin-4-yl)amine 404828-10-0P,
(5-Methyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)-amine
404828-11-1P, (7-Chloro-2-pyridin-4-ylquinazolin-4-yl) (5-methyl-2H-pyrazol-
3-yl)amine 404828-12-2P, (6-Chloro-2-pyridin-4-ylquinazolin-4-yl) (5-
methyl-2H-pyrazol-3-yl)amine
                             404828-13-3P,
(2-Cyclohexylquinazolin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404828-14-4P, (5-Methyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-15-5P, [2-(4-Todophenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-
          404828-16-6P, [2-(4-Chlorophenyl)quinazolin-4-yl](5-methyl-2H-
vl)amine
pvrazol-3-vl)amine
                    404828-17-7P.
[2-(3,5-Dichlorophenyl)quinazolin-4-v1](5-methyl-2H-pyrazol-3-v1)amine
404828-18-8P, [2-(4-Cyanophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
         404828-19-9P, [2-(3-Iodophenvl)quinazolin-4-vl](5-methvl-2H-
pyrazol-3-yl)amine 404828-20-2P,
[2-(4-Ethylsulfanylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-21-3P, (5-Cyclopropy1-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
         404828-22-4P, [2-(4-tert-Butylphenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404828-23-5P,
[2-(4-Chlorophenyl)quinazolin-4-yl](5-cyclopropyl-2H-pyrazol-3-yl)amine
404828-24-6P, (2-Benzo[1,3]dioxol-5-vlquinazolin-4-vl)(5-methyl-2H-pyrazol-
3-v1)amine
            404828-25-7P, [2-(4-Dimethylaminophenyl)quinazolin-4-yl](5-
methyl-2H-pyrazol-3-v1)amine
                             404828-26-8P,
[2-(3-Methoxypheny1)quinazolin-4-y1](5-methy1-2H-pyrazol-3-y1)amine
404828-27-9P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-
dichlorophenyl)quinazolin-4-yl]amine 404828-28-0P,
[2-(3-Ethynylphenyl)guinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-29-1P, [2-(3-Methylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
         404828-31-5P, [2-(3,5-Difluorophenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-vl)amine 404828-32-6P,
[2-(3-Chloro-4-fluorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
         404828-34-8P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-
vl)amine
trifluoromethylphenyl)quinazolin-4-yl]amine 404828-35-9P,
[2-(3-Cvanophenv1)quinazolin-4-v1](5-methv1-2H-pvrazol-3-v1)amine
404828-36-0P, [2-(3-Isopropylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
          404828-37-1P, (5-Methyl-2H-pyrazol-3-yl)(2-pyridin-3-
ylquinazolin-4-yl)amine
                        404828-38-2P,
[2-(3-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-39-3P, [2-(3,5-Bis(trifluoromethyl)phenyl)quinazolin-4-yl](5-methyl-
2H-pyrazo1-3-y1)amine 404828-40-6P,
[2-(3-Hydroxymethylphenyl)quinazolin-4-v1](5-methyl-2H-pyrazol-3-v1)amine
404828-41-7P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-phenoxyphenyl)quinazolin-4-
vllamine 404828-42-8P, (5-Cvclopropvl-2H-pvrazol-3-vl)[2-(3-
phenoxyphenyl)quinazolin-4-yl]amine 404828-43-9P 404828-44-0P,
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(2-Phenylquinazolin-4-yl)(2H-pyrazol-3-yl)amine 404828-45-1P,
    (2H-Pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)amine 404828-46-2P,
    (5-Ethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-47-3P,
    (2-Phenylquinazolin-4-yl) (5-propyl-2H-pyrazol-3-yl) amine
                                                             404828-48-4P.
    (5-Isopropyl-2H-pyrazol-3-yl) (2-phenylquinazolin-4-yl)amine
    404828-49-5P, (5-tert-Butyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
    404828-50-8P, (5-tert-Buty1-2H-pyrazo1-3-y1)(2-pyridin-4-ylquinazolin-4-
    vl)amine
              404828-51-9P, (5-Cvclopentvl-2H-pyrazol-3-v1)(2-
    phenylguinazolin-4-vl)amine
                                  404828-52-0P.
    (5-Phenyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-53-1P,
    (5-Carboxy-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
                                                               404828-55-3P.
    (5-Hydroxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
    404828-56-4P, (5-Methoxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
    vl)amine
               404828-57-5P, [5-(3-Hydroxypropy1)-2H-pyrazol-3-y1](2-
    phenylquinazolin-4-yl)amine 404828-59-7P,
    [5-(3-Methoxypropyl)-2H-pyrazol-3-vl](2-phenylquinazolin-4-vl)amine
    404828-60-0P, [5-(3-Aminopropyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
    yl)amine 404828-62-2P, (5-Isopropylcarbamoyl-2H-pyrazol-3-yl)(2-
    phenylguinazolin-4-vl)amine 404828-63-3P,
    (5-Allylcarbamoy1-2H-pyrazo1-3-y1) (2-phenylquinazolin-4-y1) amine
    404828-64-4P, [5-(2-Methoxyethylcarbamoy1)-2H-pyrazol-3-y1](2-
    phenylquinazolin-4-yl)amine 404828-65-5P,
    (5-Benzylcarbamov1-2H-pyrazo1-3-v1)(2-phenylquinazolin-4-v1)amine
    404828-66-6P, (5-Cyclohexylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
              404828-67-7P, (5-Diethylcarbamov1-2H-pyrazol-3-v1)(2-
    phenylquinazolin-4-yl)amine
                                 404828-68-8P,
    [5-(Benzylmethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
    404828-69-9P, (2-Phenylquinazolin-4-v1)(5-propylcarbamov1-2H-pyrazol-3-
    yl)amine 404828-70-2P, [5-(Ethylisopropylcarbamoyl)-2H-pyrazol-3-yl](2-
    phenylguinazolin-4-vl)amine 404828-71-3P,
    (5-Cyclopropylcarbamoy1-2H-pyrazo1-3-y1) (2-phenylquinazolin-4-y1) amine
    404828-72-4P, (5-Isobutylcarbamovl-2H-pyrazol-3-yl)(2-phenylguinazolin-4-
    yl)amine 404828-73-5P, [5-((3S)-3-Methoxymethylpyrrolidine-1-carbonyl)-
    2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine 404828-74-6P,
    (2-Phenylquinazolin-4-yl) (5-m-tolylcarbamoyl-2H-pyrazol-3-yl) amine
    404828-75-7P, (2-Phenylquinazolin-4-yl)(5-p-tolylcarbamoyl-2H-pyrazol-3-
    vl)amine
              404828-76-8P, (5-Methylcarbamov1-2H-pyrazo1-3-v1)(2-
    phenylquinazolin-4-yl)amine
                                 404828-77-9P,
    [5-(Morpholine-4-carbonyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
    404828-78-0P, [5-(1-Methylpiperazine-4-carbonyl)-2H-pyrazol-3-yl](2-
    phenylguinazolin-4-vl)amine 404828-79-1P,
    [5-(2-Hydroxyethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
               404828-80-4P, (5-Carbamovl-2H-pyrazol-3-vl)(2-phenylquinazolin-
                 404828-82-6P, (4-Bromo-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
    4-vl)amine
    vl)amine
               404828-83-7P, (4-Bromo-5-methyl-2H-pyrazol-3-yl)(2-
    phenylquinazolin-4-yl)amine 404828-84-8P,
    (4-Cyano-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-85-9P,
    (5-Methyl-2H-pyrazol-3-yl)(2-morpholin-4-ylquinazolin-4-yl)amine
    404828-86-0P, (5-Methyl-2H-pyrazol-3-yl)(2-piperazin-1-ylquinazolin-4-
    vl)amine
              404828-87-1P, [2-(4-Methylpiperidin-1-v1)quinazolin-4-v1](5-
    methyl-2H-pyrazol-3-yl)amine
                                  404828-88-2P
, [2-(4-Methylpiperazin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
    404828-89-3P, (5-Methyl-2H-pyrazol-3-yl)(2-piperidin-1-ylquinazolin-4-
              404828-90-6P, [2-(Azepan-1-yl)quinazolin-4-yl](5-methyl-2H-
    vl)amine
    pyrazol-3-v1)amine
                       404828-91-7P,
    [2-[4-(2-Hydroxyethyl)piperidin-1-yl]quinazolin-4-yl](5-methyl-2H-pyrazol-
    3-v1)amine 404828-92-8P, (5-Cvclopropv1-2H-pvrazo1-3-v1)[2-(4-
    methylpiperidin-1-yl)quinazolin-4-yl]amine 404828-94-0P,
    [2-(1,4-Dioxa-8-azaspiro[4.5]dec-8-vl]quinazolin-4-vl](5-methyl-2H-pyrazol-
    3-yl)amine 404828-95-1P, [2-(4-Cyclopentylaminopiperidin-1-yl)quinazolin-
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4-v11(5-methv1-2H-pvrazo1-3-v1)amine 404828-96-2P,
[2-(4-Hydroxypiperidin-1-y1)quinazolin-4-y1](5-methy1-2H-pyrazol-3-
         404828-97-3P, (5-Cvclopropv1-2H-pvrazol-3-v1)[2-(4-hvdroxv-4-
vl)amine
phenylpiperidin-1-yl)quinazolin-4-yl]amine 404828-98-4P,
(5-Cyclopropyl-2H-pyrazol-3-yl)[2-(1,3-dihydroisoindol-2-yl)quinazolin-4-
yl]amine 404828-99-5P, [2-(Azepan-1-yl)quinazolin-4-yl](5-cyclopropyl-2H-
pyrazol-3-y1)amine 404829-00-1P,
(5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-dihydro-1H-isoquinolin-2-
vl)quinazolin-4-vllamine
                          404829-01-2P.
(5-Cyclopropyl-2H-pyrazol-3-yl)[2-(2,3-dihydroindol-1-yl)quinazolin-4-
vllamine
          404829-02-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-
hydroxymethylpiperidin-1-yl)guinazolin-4-yl|amine 404829-03-4P.
(5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-dihydro-2H-quinolin-1-yl)quinazolin-
4-vllamine
            404829-05-6P, 5-(Piperidine-1-carbonyl)-2H-pyrazol-3-yl-[2-
(piperidine-1-yl)quinazolin-4-yl]amine 404829-06-7P,
(5-Hydroxymethyl-2H-pyrazol-3-yl)[2-(piperidin-1-yl)guinazolin-4-yl]amine
404829-07-8P, (5-Carbamov1-2H-pyrazol-3-v1)[2-(piperidin-1-v1)quinazolin-4-
yl]amine
         404829-08-9P, (5-Carbamoy1-2H-pyrazo1-3-y1)[2-(4-
methylpiperidin-1-vl)quinazolin-4-vl|amine 404829-09-0P,
(5,7-Difluoro-1H-indazol-3-yl) (2-phenyl-5,6,7,8-tetrahydroguinazolin-4-
          404829-10-3P, (2-Phenyl-5,6,7,8-tetrahydroquinazolin-4-yl)(5-
trifluoromethyl-1H-indazol-3-yl)amine 404829-11-4P,
(7-Fluoro-1H-indazol-3-v1)(2-phenylguinazolin-4-v1)amine
                                                          404829-12-5P.
(5-Fluoro-1H-indazol-3-yl)(2-phenylquinazolin-4-yl)amine 404829-13-6P,
(5.7-Difluoro-1H-indazol-3-v1) (2-phenylquinazolin-4-v1) amine
404829-14-7P, (1H-Indazol-3-vl)[2-(3-trifluoromethylphenyl)quinazolin-4-
          404829-15-8P, (2-Phenylquinazolin-4-yl)(1H-pyrazolo[4,3-
                     404829-16-9P,
b|pvridin-3-v1)amine
[5-(3-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylguinazolin-4-vl)amine 404829-17-0P,
(6-0xo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-(2-
phenylguinazolin-4-vl)amine 404829-18-1P,
[5-(4-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylquinazolin-4-yl)amine 404829-19-2P,
[5-(2,4-Dichlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-
                                   404829-21-6P.
yl](2-phenylquinazolin-4-yl)amine
[6-0xo-5-(3-trifluoromethylphenyl)-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-
3-y1](2-phenylquinazolin-4-y1)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
  analogs as protein kinase inhibitors for treatment of cancer,
  diabetes, and Alzheimer's disease)
404829-22-7P, [6-0xo-5-(4-Phenoxyphenyl)-5,6-dihydro-1H-pyrazolo[4,3-
c]pyridazin-3-yl](2-phenylquinazolin-4-yl)amine 404829-23-8P,
[5-(4-Chlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylguinazolin-4-vl)amine 404829-24-9P,
(2-Imidazol-1-ylquinazolin-4-yl)(1H-indazol-3-yl)amine 404829-25-0P,
(1H-Indazol-3-v1)[2-(2-methylimidazol-1-v1)quinazolin-4-v1]amine
404829-26-1P, (1H-Indazol-3-yl)(2-piperidin-1-ylquinazolin-4-yl)amine
404829-27-2P, (1H-Indazol-3-yl)[2-(octahydroquinolin-1-yl)quinazolin-4-
vl]amine
          404829-28-3P, (1H-Indazol-3-yl)[2-(2,6-dimethylmorpholin-4-
vl)quinazolin-4-vllamine 404829-29-4P,
(5-Methyl-2H-pyrazol-3-yl)(2-phenylpyrimidin-4-yl)amine
404829-30-79, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
v1](5-methv1-2H-pvrazo1-3-v1)amine 404829-32-9P,
[2-(4-Methylpiperidin-1-y1)pyrimidin-4-y1](5-methyl-2H-pyrazol-3-y1)amine
404829-33-0P, [2-(4-Methylpiperidin-1-v1)-5-nitropyrimidin-4-v1](5-methyl-
2H-pyrazo1-3-yl)amine 404829-34-1P,
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[5-Amino-2-(4-Methylpiperidin-1-vl)pvrimidin-4-vl](5-methyl-2H-pvrazol-3-
yl)amine 404829-35-2P, [5-Amino-6-methyl-2-(4-methylpiperidin-1-
v1)pvrimidin-4-v1](5-methv1-2H-pvrazo1-3-v1)amine 404829-36-3P
, [6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-
          404829-37-4P,
vl)amine
[2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-2-yl-2H-pyrazol-3-
          404829-38-5P.
vl)amine
[5-(Furan-2-v1)-2H-pvrazo1-3-v1](6-methv1-2-phenvlpvrimidin-4-v1)amine
404829-39-6P
              404829-40-9P.
(5-Furan-2-v1-2H-pvrazo1-3-v1)[6-methv1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-41-0P,
[2-(2,3-Dihydrobenzo(1,4)dioxin-2-vl)-6-methylpyrimidin-4-vl](5-furan-2-vl-
2H-pyrazol-3-yl)amine 404829-42-1P,
[2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-ethylpyrimidin-4-yl](5-methyl-2H-
pyrazol-3-yl)amine 404829-43-2P,
(6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2H-
pyrazol-3-yl)amine 404829-45-4P,
[6-Ethvl-2-(4-trifluoromethvlphenvl)pvrimidin-4-vl](5-methvl-2H-pvrazol-3-
vl)amine
          404829-46-5P,
(5-Furan-2-yl-2H-pyrazol-3-yl)[6-methyl-2-(4-methylphenyl)-pyrimidin-4-
yl]amine 404829-47-6P,
(6-Methoxymethyl-2-phenylpyrimidin-4-vl) (5-methyl-2H-pyrazol-3-vl) amine
404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazol-3-vl)amine 404829-49-8P,
(6-Methyl-2-phenylpyrimidin-4-vl)(5-methyl-2H-pyrazol-3-vl)amine
404829-50-1P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-
2H-pyrazol-3-vl)amine 404829-51-2P,
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
tolylpyrimidin-4-yl)amine 404829-53-4P,
(1H-Indazol-3-vl)(6-methoxymethyl-2-phenylpyrimidin-4-vl)amine
404829-54-5P, (5-Methyl-2H-pyrazol-3-yl)-(2-pyridin-4-ylthieno(3,2-
dlpvrimidin-4-vl)amine
                        404829-55-6P.
(5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[3,4-d]pyrimidin-4-yl)amine
404829-56-7P, (5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[2,3-d]pyrimidin-4-
          404829-57-8P, (5-Cvclopropv1-2H-pvrazo1-3-v1)-(2-
phenylpyrido[3,4-d]pyrimidin-4-yl)amine
                                         404829-60-3P,
(5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(4-methylpiperidin-1-y1)pyrrolo[3,2-
d]pyrimidin-4-yl]amine 404829-62-5P,
(5-Fluoro-1H-indazol-3-v1)-(2-phenv1-5,6,7,8-tetrahydropyrido[4,3-
d]pyrimidin-4-yl)amine 404829-63-6P,
(1H-Indazol-3-vl)[3-(2-trifluoromethylphenyl)isoguinoline-1-vl]amine
404829-65-8P, (5,7-Difluoro-1H-indazol-3-v1)[3-(2-
trifluoromethylphenyl)isoquinolin-1-yl]amine
                                             404829-66-9P.
(1H-Indazol-3-v1)(2-phenylquinolin-4-v1)amine
                                              404829-67-0P,
(2-Phenylquinolin-4-yl) (1H-pyrazolo[4,3-b]pyridin-3-yl)amine
404829-68-1P, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)quinolin-4-
          404829-69-2P, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-
                                          404829-70-5P,
trifluoromethylphenyl)guinolin-4-vllamine
[2-(2-Trifluoromethylphenyl)quinolin-4-yl](1H-pyrazolo[4,3-b]pyridin-3-
          404829-71-6P, (2-Phenylquinazolin-4-yl)(2H-1,2,4-triazol-3-
vl)amine
vl)amine
          404829-72-7P, (5-Methyl-2H-1,2,4-triazol-3-yl)(2-
phenylquinazolin-4-vl)amine
                             404829-73-8P.
(2H-1, 2, 4-Triazol-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-4-y1]amine
404829-74-9P, (5-Methyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine 404829-75-0P,
(5-Methylsulfanyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine 404829-76-1P,
(1H-[1,2,4]Triazol-3-yl)[3-(2-trifluoromethylphenyl)isoquinolin-1-yl]amine
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404829-77-2P, (2-Phenylquinolin-4-yl)(1H-1,2,4-triazol-3-yl)amine
404829-78-3P, (1H-[1,2,4]Triazol-3-y1)[2-(2-trifluoromethylphenyl)quinolin-
4-vllamine 404829-79-4P,
(1H-Indazol-3-yl) [5-methyl-6-morpholin-4-yl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine
                                           404829-80-7P 404829-81-8P
404829-82-9P 404829-83-0P 404845-75-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
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(protein kinase inhibitor; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2-404827-84-5P, trifluoromethylphenyl)pyrimidine 4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-86-7P, 4-Chloro-6-(2-chlorophenv1)-2-(2trifluoromethylphenyl)pyrimidine 404827-87-89,

4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine 404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-

404829-31-8P, pyrimidin-4-one (6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

RM 404827-83-4 HCAPLUS

Pyrimidine, 4-chloro-6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA CN INDEX NAME)

- RN 404827-84-5 HCAPLUS
- CN Pyrimidine, 4-chloro-6-phenyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404827-86-7 HCAPLUS
- Pyrimidine, 4-chloro-6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-CN (CA INDEX NAME)

- RN 404827-87-8 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

- RN 404828-02-0 HCAPLUS
- CN 4(3H)-Pyrimidinone, 6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-31-8 HCAPLUS
- CN 4-Pyrimidinamine, 6-chloro-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- IT 404826-28-4P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-Methyl-2H-pyrazol-3-yl)amine 404826-46-6P, (1H-Indazol-3-yl)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-47-7P, (1H-Indazol-3-yl)[6-phenyl-2-(2trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-48-8P,
  - (1H-Indazol-3-yl)[6-(pyridin-4-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-

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vllamine 404826-49-9P,
(1H-Indazol-3-yl) [6-(pyridin-2-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
vllamine 404826-50-2P,
[6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
            404826-51-3P,
3-vl)amine
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
vl)amine
          404826-52-4P.
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
indazo1-3-y1)amine 404826-53-5P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
vl](7-fluoro-1H-indazol-3-vl)amine
                                   404826-55-7P,
(5,7-Difluoro-1H-indazol-3-yl) [5,6-Dimethyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-56-8P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
          404826-57-9P.
[2-(2-Chlorophenv1)-5,6-dimethylpvrimidin-4-v1](7-fluoro-1H-indazol-3-
yl)amine 404826-58-0P,
[2-(2-Chlorophenv1)-5,6-dimethylpvrimidin-4-v1](5-fluoro-1H-indazol-3-
yl)amine 404826-59-1P,
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404827-32-3P, [6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-
vll(5-phenvl-2H-pvrazol-3-vl)amine
                                   404827-33-4P,
(5-Furan-2-v1-2H-pyrazol-3-v1) [6-methyl-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-vllamine
                                             404827-34-52,
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
          404827-52-7P,
vl)amine
[6-Cvclohexv1-2-(2-trifluoromethylphenyl)pyrimidin-4-v1](1H-indazol-3-
yl)amine 404827-53-8P,
[6-(2-Fluorophenv1)-2-(2-trifluoromethylphenv1)pyrimidin-4-v1](1H-indazol-
3-y1) amine 404829-29-4P,
(5-Methyl-2H-pyrazol-3-yl)(2-phenylpyrimidin-4-yl)amine
404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
v11(5-methv1-2H-pvrazo1-3-v1)amine 404829-36-3P,
[6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-yl)amine
404829-37-4P, [2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-
2-v1-2H-pyrazol-3-v1)amine
                           404829-38-52,
[5-(Furan-2-y1)-2H-pyrazol-3-y1](6-methyl-2-phenylpyrimidin-4-y1)amine
404829-39-6P
              404829-40-99,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-43-29,
(6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl) (5-phenyl-2H-
pyrazol-3-yl)amine 404829-45-4P,
[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404829-46-5P,
(5-Furan-2-v1-2H-pyrazo1-3-v1)[6-methyl-2-(4-methylphenyl)-pyrimidin-4-
yl]amine 404829-47-6P,
(6-Methoxymethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazol-3-yl)amine 404829-49-8P,
(6-Methyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-50-1P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404829-51-2P,
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
tolylpyrimidin-4-v1)amine 404829-53-4P,
(1H-Indazol-3-yl) (6-methoxymethyl-2-phenylpyrimidin-4-yl) amine
404829-79-4F, (1H-Indazol-3-v1)[5-methv1-6-morpholin-4-v1-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-82-9P
```

RL: <a href="#PAC">PAC</a> (Pharmacological activity); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(protein kinase inhibitor; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for <u>treatment</u> of cancer, diabetes, and Alzheimer's disases)

RN 404826-28-4 HCAPLUS

RN 404826-46-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-methyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-47-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-phenyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-48-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(4-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-49-9 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-pyridiny1)-2-[2-(trifluoromethy1)pheny1]-4pyrimidiny1]- (CA INDEX NAME)

RN 404826-50-2 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-51-3 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404826-52-4 HCAPLUS

 ${\tt CN-1H-Indazol-3-amine,\ N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4-1}$ 

pyrimidinyl]-5-fluoro- (CA INDEX NAME)

- RN 404826-53-5 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chloropheny1)-5,6-dimethyl-4-pyrimidiny1]-(CA INDEX NAME)

- RN 404826-54-6 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-7-fluoro- (CA INDEX NAME)

- RN 404826-55-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

- RN 404826-56-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5,7-

difluoro- (CA INDEX NAME)

RN 404826-57-9 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chloropheny1)-5,6-dimethy1-4-pyrimidiny1]-7fluoro- (CA INDEX NAME)

RN 404826-58-0 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5fluoro- (CA INDEX NAME)

RN 404826-59-1 HCAPLUS

RN 404827-32-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[2-

(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-33-4 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazol-3-y1]-6-methy1-2-[2-(trifluoromethoxy)pheny1]- (CA INDEX NAME)

- RN 404827-34-5 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-y1)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-52-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404827-53-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404829-29-4 HCAPLUS
- CN 4-Pyrimidinamine, N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-30-7 HCAPLUS
- CN Acetamide, N-[4-[[6-[(5-methyl-1H-pyrazol-3-yl)amino]-2-phenyl-4-pyrimidinyl]thio]phenyl]- (CA INDEX NAME)

- RN 404829-36-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-phenyl-1H-pyrazol-3-yl)-(CA INDEX NAME)

- RN 404829-37-4 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl- (CA INDEX NAME)

- RN 404829-38-5 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazol-3-y1]-6-methyl-2-phenyl-(CA INDEX NAME)

- RN 404829-39-6 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-40-9 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-43-2 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-44-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-phenyl-N-(5-phenyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

RN 404829-45-4 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-y1)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-46-5 HCAPLUS

 $\texttt{CN} \qquad 4-\texttt{Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazo1-3-y1]-6-methy1-2-(4-$ 

methylphenyl) - (CA INDEX NAME)

RN 404829-47-6 HCAPLUS

CN 4-Pyrimidinamine, 6-(methoxymethyl)-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl-(CA INDEX NAME)

RN 404829-48-7 HCAPLUS

CN 4-Pyrimidinamine, 5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-49-8 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-methyl-1H-pyrazol-3-y1)-2-phenyl- (CA INDEX NAME)

- RN 404829-50-1 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-51-2 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-52-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-53-4 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(methoxymethyl)-2-phenyl-4-pyrimidinyl]- (CA INDEX NAME)

RN 404829-79-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5-methyl-6-(4-morpholinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404829-82-9 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-(5-methyl-1H-pyrazol-3-yl)-6-(3,4,5trimethoxyphenyl) - (CA INDEX NAME)

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD

(7 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 10 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 10

ACCESSION NUMBER: 2000:401654 HCAPLUS Full-text

DOCUMENT NUMBER . 133 - 43533

TITLE: Preparation of aryl and heterocyclyl substituted

pyrimidines as anti-coagulants

INVENTOR(S): Davey, David D.; Phillips, Gary B.

PATENT ASSIGNEE(S): Berlex Laboratories, Inc., USA SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT	NO.			KIN	D	DATE			APPL	ICAT	I NOI	NO.		D	ATE		
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WO	WO 2000033844			A1 20000615			WO 1999-US28537						19991203 <					
	W:	AE,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,	
		CZ.	DE.	DK.	DM.	EE.	ES.	FI.	GB.	GD.	GE.	GH.	GM.	HR.	HU.	ID.	IL.	

211	MD, SK, RW: GH, DK,	MG, SL, GM, ES, CI,	MK, TJ, KE, FI, CM,	MN, TM, LS, FR, GA,	MW, TR, MW, GB, GN,	MX, TT, SD, GR, GW,	NO, TZ, SL, IE, ML,	NZ, UA, SZ, IT, MR,	PL, UG, TZ, LU, NE,	LK, PT, US, UG, MC, SN,	RO, UZ, ZW, NL, TD,	RU, VN, AT, PT, TG	SD, YU, BE, SE,	SE, ZA, CH, BF,	SG, ZW CY, BJ,	SI, DE, CF,	
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	512104						1031			999-							
	120971						1030			001-					9991:		
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ZA	20010042	35		A		2002	0823	- 1	ZA 2	001-	4235			2	0010	523	<
NO	20010027	01		A		2001	0725	1	NO 2	001-	2701			2	0010	601	<
BG	105557			A		2001	1231	1	BG 2	001-	10555	57		2	0010	601	<
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MX	20010056	56		A		2002	0424	1	MX 2	001-	5656			2	0010	604	<
LT	4912			В		2002	0425	1	LT 2	001-	61			2	0010	612	<
LV	12783			В		2002	1020	1	LV 2	001-	100			2	0010	704	<
HR	20010004	99		A1		2003	0430			001-					0010		
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								I	WO 1	999-1	US285	37	I	v 1	9991	203	<

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 133:43533

OTHER SOURCE(S): MARPAT 133:43533 ED Entered STN: 16 Jun 2000

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#### \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

- AB The title compds. [I-III; Z1 = 0, NR7, CH20, SOn (n = 0-2); Z2 = 0, NR7, OCH2, SOn (n = 0-2); R1, R4 = H, halo, alkyl, etc.; R5 = E, halo, alkyl, etc.; R6 = (un)substituted aryl, aralkyl, heterocyclyl, etc.] which inhibit the enzyme, factor Xa and therefore are useful as anti-coagulants, were prepared and formulated. E.g., a multi-step synthesis of I.F3CCO2H [Z1 = Z2 = 0; R1 = 2-OH; R2 = 5-C(NH)NH2; R3 = 3-(1-methylimidazolin-2-yl); R4, R5 = H; R6 = Ph] was given. Compds. I demonstrated the selective ability to inhibit human factor Xa and human thrombin, and are effective in treating a 70 kg person at 100-500 mg/day.
- IC ICM A61K031-495
- ICS C07D239-24
- CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
- Section cross-reference(s): 1, 63

TT	1100594-48-6	1100594-49-7	1100594-50-0
11	1100334-40-0	1100394-49-7	1100234-20-0
	1100594-52-2	1100594-53-3	1100594-54-4
	1100594-55-5	1100594-57-7	1100594-60-2

1100594-61-3 1100594-63-5 1100594-64-6 1100594-65-7 1100594-66-8

1100594-67-9	1100594-68-0	1100594-69-1	1100594-70-4	1100594-71-5
1100594-72-6	1100594-73-7	1100594-74-8	1100594-75-9	1100594-76-0
1100594-77-1	1100594-78-2	1100594-79-3	1100594-80-6	
RL: PRPH (Prop	hetic)			

(Preparation of aryl and heterocyclyl substituted pyrimidines as anti-coagulants)

IT 274673-39-1P 274673-40-4P 274673-41-5P

274673-42-6P 274673-43-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aryl and heterocyclyl substituted pyrimidines as anti-coagulants)

IT 3740-92-9P 13345-09-0P 13566-71-7P, 4,6-Dihydroxy-2-phenylpyrimidine 26032-72-4P 36822-11-4P 274673-44-9P 274673-45-9P Pl. Port (Packath) SPN (Surphylic propagation) PRC (Packath) PRC (Packath

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of arvl and heterocyclyl substituted pyrimidines as

(preparation of aryl and neterocyclyl substituted pyrimidines as anti-coagulants)

ΙT	1100594-48-6	1100594-50-0	1100594-52-2
	1100594-53-3	1100594-54-4	1100594-55-5
	1100594-57-7	1100594-60-2	1100594-80-6

RL: PRPH (Prophetic)

(Preparation of aryl and heterocyclyl substituted pyrimidines as anti-coagulants)

RN 1100594-48-6 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED

RN 1100594-50-0 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED

CN INDEX NAME NOT YET ASSIGNED

RN 1100594-53-3 HCAPLUS CN INDEX NAME NOT YET ASSIGNED

RN 1100594-54-4 HCAPLUS CN INDEX NAME NOT YET ASSIGNED

RN 1100594-55-5 HCAPLUS CN INDEX NAME NOT YET ASSIGNED

RN 1100594-57-7 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED

RN 1100594-60-2 HCAPLUS

CN Benzamide, 4-[4-[5-(aminoiminomethyl)-2-hydroxyphenoxy]-6-[3-(4,5-dihydro-1-methyl-1H-imidazol-2-yl)phenoxy]-2-pyrimidinyl]- (CA INDEX NAME)

RN 1100594-80-6 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED

IT 274673-39-1P 274673-40-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TRU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of aryl and heterocyclyl substituted pyrimidines as

anti-coagulants)

RN 274673-39-1 HCAPLUS

CN Benzenecarboximidamide, 3-[[6-[3-(4,5-dihydro-1-methyl-1H-imidazol-2-yl)phenoxy]-2-phenyl-4-pyrimidinyl]oxy]-4-hydroxy- (CA INDEX NAME)

RN 274673-40-4 HCAPLUS

CN Benzenecarboximidamide, 3-[[6-[3-(4,5-dihydro-1-methyl-lH-imidazol-2-yl)phenoxy]-2-phenyl-4-pyrimidinyl]oxy]-4-hydroxy-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 274673-39-1

CMF C27 H24 N6 O3

CM 2

CRN 76-05-1 CMF C2 H F3 O2

011 01 11 10 01

#### IT 274673-44-8P 274673-45-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aryl and heterocyclyl substituted pyrimidines as anti-coagulants)

RN 274673-44-8 HCAPLUS

CN Benzonitrile, 3-[(6-chloro-2-phenyl-4-pyrimidinyl)oxy]-4-(phenylmethoxy)-(CA INDEX NAME)

RN 274673-45-9 HCAPLUS

CN Benzonitrile, 3-[[6-[3-(4,5-dihydro-1-methyl-1H-imidazol-2-yl)phenoxy]-2-phenyl-4-pyrimidinyl]oxy]-4-(phenylmethoxy)- (CA INDEX NAME)

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD

(11 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 11 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2009:552164 HCAPLUS Full-text

DOCUMENT NUMBER: 150:494855

TITLE: Preparation of N-hydroxybenzamide and

N-hydroxyheterocyclecarboxamide derivatives as

inhibitors of histone deacetylase (HDAC)

INVENTOR(S): Mallais, Tammy; Moradei, Oscar; Ajamian, Alain;
Tessier, Pierre; Smil, David; Frechette, Sylvie;
Machaalani, Roger; Leit, Silvana; Beaulieu, Patrick;

Deziel, Robert; Mancuso, John

PATENT ASSIGNEE(S): Methylgene Inc., Can.

SOURCE: PCT Int. Appl., 164pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

DATE APPLICATION NO. DATE PATENT NO. KIND WO 2009055917 A1 20090507 WO 2008-CA1911 20081103 <--W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM US 2007-985060P P 20071102 <--PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 150:494855 ED Entered STN: 07 May 2009

GI

AB The title compds. [I; ring X = each (un) substituted aryl, heteroaryl, cycloalkyl, or heterocyclyl; W = N-C:, C(R1); M = C(O)N(R1)OR2, C(O)NR1R2, CO2H, C(O)OR1, -C(O)-C1-C3 alkyl-SR1, NHC(O)-C1-C3 alkyl-SR1, NHC(O)-C1-C3alkyl-OR1, C(O)CH2-S(acetyl), C(O)-heteroaryl, C(O)-heterocyclyl, C(NOH)NR1R2, C(O)-C1-C3 alkyl-OR1, C(O)-C1-C3 alkyl-NR1R2, C(O)CF3, C(0)C(0)OR1, C(0)C(0)NR1R2, C(0)-C1-C4 alkvl, N(0H)C(0)H, N(OR1)C(0)R2, NR1SO2NR1R2, SO2NR1OH, N(OH)C(O)NR1R2, NRC(O)N(OH)R2, OC(O)N(OH)R2, C(NOH)NR1R2, Zn-chelating group; R1, R2 = H, alkvl, arvl, arvlarvl, heteroaryl, heteroarylaryl, heteroarylheteroaryl, alkylheteroaryl, alkylaryl, etc.; R = H, alkyl, halo, HO, NO2, C1-4 alkyl, NR1R2, OR1, aryl, heteroaryl, alkyloxy, CF3; n = 0, 1; L = aryl, heteroaryl, cycloalkyl, heterocyclyl, fused aryl, fused heterocyclyl, fused cycloalkyl, alkenylaryl, arylheteroaryl, heteroarylaryl, alkynylaryl, 0-C0-4 alkylaryl, alkylaryl, SO2NR1-C0-4 alkylaryl, etc.; Y = H, halo, arylheterocyclyl, -aryl-O-C0-C4alkylaryl, arylaryl, C1-4 alkyl, heteroalkyl, alkenyl, alkynyl, each (un)substituted NH2, HO, or SH, -C0-3 alkylaryl, -C0-3 alkylheteroaryl, -C0-3 alkylheterocyclyl, -CO-3 alkylcycloalkyl, -C2-4 alkenylaryl, etc.] N-oxides, hydrates, solvates, pharmaceutically acceptable salts, prodrugs and complexes thereof, and racemic and scalemic mixts., tautomers, diastereomers and enantiomers thereof. There are also disclosed a method for the inhibition of HDAC enzymic activity and a method for treating a disease responsive to an inhibitor of HDAC activity,

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more specifically an inhibitor of one or more of HDAC4, HDAC5, HDAC6, HDAC7,
     HDAC8, HDAC9, and HDAC11. The compds. I including benzohydroxamic acid,
     thiazolecarbohydroxamic acid, thiophenecarbohydroxamic acid,
     pyrazolecarbohydroxamic acid, pyrimidinecarbohydroxamic acid, and
     benzothiophenecarbohydroxamic acid derivs. are useful for treating cell
     proliferative diseases and conditions. Thus, a solution of 420~\mathrm{mg} Me 2,4-
     diphenylthiazole-5-carboxylate in 2.84 mL MeOH and 2.84 mL THF was cooled to
     0°, treated with a 50% aqueous solution of hydroxylamine (4,697 mg) and 0.427
     mL 4 M aqueous KOH solution, and the resulting mixture was warmed to room
     temperature and stirred at room temperature for 18 h to give 72% N-hydroxy-
     2,4-diphenylthiazole-5-carboxamide (II). II showed IC50 of <250 nM against one
     or more of HDAC4, HDAC5, HDAC6, HDAC7, HDAC8, HDAC9, and HDAC11.
CC
    28-7 (Heterocyclic Compounds (More Than One Hetero Atom))
    Section cross-reference(s): 1, 25
    20885-72-7P, N-Hydroxy-2-(phenylamino)benzamide 36828-13-4P,
ΙT
    N-Hydroxybiphenyl-2-carboxamide
                                     65765-03-9P.
    N-Hydroxy-2-phenoxybenzamide 213012-69-2P,
    2-(N-Benzylsulfamoyl)-N-hydroxybenzamide 256643-99-9P,
    N-Hydroxy-2-phenethylbenzamide 858490-34-3P,
    N-Hydroxy-5-methyl-3-phenylisoxazole-4-carboxamide 886574-64-7P,
    2-Benzyl-N-hydroxybenzamide 1148157-38-3P,
    N-Hydroxydibenzofuran-4-carboxamide 1148157-39-4P,
    2-(Benzyloxy)-N-hydroxybenzamide
                                      1148157-40-7P.
    N-Hydroxy-5-methoxy-2-(thiophen-2-yl)benzamide
                                                     1148157-42-9P,
    N-Hydroxy-2-(thiophen-2-v1)benzamide
                                          1148157-43-0P.
    N-Hydroxy-3'-phenylbiphenyl-2-carboxamide 1148157-44-1P,
                                               1148157-45-2P.
    N-Hydroxy-4'-phenylbiphenyl-2-carboxamide
    4'-Fluoro-N-hydroxy-2'-methylbiphenyl-2-carboxamide 1148157-46-3P,
    N-Hydroxy-2',3'-dimethoxybiphenyl-2-carboxamide
                                                     1148157-47-4P.
    N-Hvdroxv-5-phenvlbiphenvl-2-carboxamide
                                              1148157-48-5P,
    2-(Benzo[1,3]dioxol-5-yl)-N-hydroxybenzamide 1148157-49-6P,
    N-Hydroxy-3'-methoxybiphenyl-2-carboxamide
                                                1148157-50-9P,
    4'-Fluoro-N-hydroxybiphenyl-2-carboxamide 1148157-51-0P,
    N-Hydroxy-2-(1H-pyrrol-1-yl)benzamide 1148157-52-1P,
    2-(2,5-Dimethyl-1H-pyrrol-1-yl)-N-hydroxybenzamide
                                                         1148157-53-2P.
    N-Hydroxy-2'-methoxybiphenyl-2-carboxamide 1148157-54-3P,
    N-Hydroxy-2-[4-(methyl)thiophen-3-yl]benzamide 1148157-55-4P,
    N-Hydroxy-2-(2-methylbenzo[d]thiazol-5-yl)benzamide
                                                         1148157-56-5P.
    N-Hydroxy-3'-nitrobiphenyl-2-carboxamide 1148157-57-6P,
    3'-Fluoro-N-hydroxybiphenyl-2-carboxamide
                                               1148157-58-7P,
    N-Hvdroxv-3'-(1H-pvrrol-1-v1)biphenv1-2-carboxamide
                                                          1148157-59-8P,
    N-Hydroxy-3'-[4-(methyl)thiophen-3-yl]biphenyl-2-carboxamide
    1148157-60-1P, N-Hydroxy-2-(2-methoxypyridin-3-v1)benzamide
    1148157-61-2P, N-Hydroxy-1,3-diphenyl-1H-pyrazole-4-carboxamide
    1148157-62-3P, N-Hydroxy-3'-methoxy-5-methylbiphenyl-2-carboxamide
    1148157-63-4P, N-Hydroxy-2-(5-phenylthiophen-2-yl)benzamide
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                                                         1148157-67-8P,
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    N-Hvdroxv-5-phenvl-3-[(phenvlsulfonvl)amino|thiophene-2-carboxamide
    1148157-71-4P
                   1148157-72-5P, N-Hydroxy-2, 4-bis[4-(methyl)thiophen-3-
    vllbenzamide
                   1148157-76-9P, N'-[2-Amino-5-(thiophen-2-yl)phenyl]-N-
    hydroxybiphenyl-2,3'-dicarboxamide 1148157-78-1P,
    3-(4-Bromophenyl)-N-hydroxy-1-(4-methoxyphenyl)-1H-pyrazole-4-carboxamide
    1148157-79-2P, N-Hydroxy-2,5-dipheny1thiophene-3-carboxamide
    1148157-80-5P, N-Hydroxy-2, 4-diphenylthiazole-5-carboxamide
    1148157-82-7P, 4-(4-Fluorophenyl)-N-hydroxy-2-(4-methoxyphenyl)thiazole-5-
    carboxamide 1148157-84-9P, 2-(Benzo[d][1,3]dioxol-5-yl)-N-hydroxy-4-
    phenvlthiazole-5-carboxamide 1148157-85-0P,
    N-Hydroxy-3,5-diphenylthiophene-2-carboxamide
                                                   1148157-88-3P,
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N-Hvdroxv-3-phenvlbenzo[b]thiophene-2-carboxamide
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1148157-92-9P, N-Hydroxy-3,6-diphenylimidazo(2,1-b)thiazole-2-carboxamide
1148157-94-1P, 5-(Dibenzo[b,f][1,4]oxazepin-11-y1)-N-hydroxybipheny1-2-
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dicarboxamide 1148157-99-6P, 1-Benzyl-N-hydroxy-3-phenyl-1H-pyrazole-4-
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                       1148158-01-3P,
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1148158-02-4P, N-Hydroxy-2-(4-morpholinophenyl)-4-phenylthiazole-5-
carboxamide
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phenylthiazole-5-carboxamide
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1148158-05-7P, N-Hydroxy-2,5-diphenyloxazole-4-carboxamide
1148158-06-8P, N-Hydroxy-2,5-diphenylthiazole-4-carboxamide
1148158-07-9P, N-Hydroxy-4-phenyl-2-(2-phenylacetamido)thiazole-5-
carboxamide 1148158-08-0P, N-Hydroxy-3-phenylbenzofuran-2-carboxamide
1148158-09-1P, 5-(4-Dimethylaminophenyl)-N-hydroxybiphenyl-2-carboxamide
1148158-10-4P, N-Hydroxy-4-phenyl-2-(piperidin-1-yl)thiazole-5-carboxamide
1148158-11-5P, N-Hydroxy-N'-phenylbiphenyl-2,5-dicarboxamide
1148158-12-6P, N-Hydroxy-2-phenylbenzofuran-3-carboxamide 1148158-13-7P,
N-Hydroxy-4-phenyl-2-(pyridin-3-yl)thiazole-5-carboxamide 1148158-14-8P,
2-(3,4-Dihydroguinolin-1(2H)-v1)-N-hydroxy-4-phenylthiazole-5-carboxamide
1148158-15-9P, N-Hydroxy-4-phenyl-2-(pyridin-4-yl)thiazole-5-carboxamide
1148158-16-0P, N'-(2-Aminophenyl)-N-hydroxybiphenyl-2,5-dicarboxamide
1148158-17-1P, 5-(1H-Benzimidazol-2-vl)-N-hydroxybiphenyl-2-carboxamide
1148158-18-2P, N-Hydroxy-5-(phenoxymethyl)-3-phenylthiophene-2-carboxamide
1148158-19-3P, N-Hydroxy-3-phenyl-5-
[(phenylsulfonyl)amino]benzo[b]thiophene-2-carboxamide
                                                        1148158-20-6P.
N-Hvdroxv-1-phenv1-5-(trifluoromethv1)-1H-pvrazole-4-carboxamide
1148158-21-7P, 3-Chloro-N-hydroxy-5-phenylthiophene-2-carboxamide
1148158-22-8P, 5-Benzyl-N-hydroxy-3-phenylthiophene-2-carboxamide
1148158-23-9P, Benzyl [2-(hydroxycarbamoyl)-3-phenylbenzo[b]thiophen-5-
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2-(1-Benzoylpiperidin-4-yl)-N-hydroxy-4-phenylthiazole-5-carboxamide
1148158-26-2P, N-Hydroxy-4'-methoxybiphenyl-2-carboxamide
2-(6-Fluoropyridin-3-yl)-N-hydroxybenzamide 1148158-28-4P,
N-Hvdroxv-2-(pvridin-3-v1)benzamide
                                    1148158-29-5P,
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1148158-33-1P, N-Hydroxy-2, 4-diphenylpyrimidine-5-carboxamide
1148158-34-2P, N-Hydroxy-2-(4-methoxyphenyl)-4-phenylthiazole-5-
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4-(3-Fluorophenyl)-N-hydroxy-2-phenylpyrimidine-5-carboxamide
1148158-36-4P, N-Hydroxy-4-phenyl-2-[1-[(pyridin-4-yl)methyl]piperidin-4-
yl]thiazole-5-carboxamide 1148158-37-5P,
N-Hvdroxy-4-phenyl-2-[1-[(pvrrolidin-1-v1)carbonyl]piperidin-4-v1]thiazole-
5-carboxamide
              1148158-38-6P, N-Hydroxy-2-[4-(2-morpholinoethoxy)phenyl]-
4-phenylthiazole-5-carboxamide 1148158-39-7P, Ethyl
4-[5-(hydroxycarbamoyl)-4-phenylthiazol-2-yl]piperidine-1-carboxylate
1148158-40-0P, N-Hydroxy-2-(1-(methylsulfonyl)piperidin-4-yl)-4-
phenylthiazole-5-carboxamide 1148158-41-1P,
N-Hydroxy-2-pheny1-4-(pyridin-4-y1)pyrimidine-5-carboxamide
1148158-42-2P, 2-Benzhydryl-N-hydroxy-4-phenylthiazole-5-carboxamide
1148158-43-3P, N-Hydroxy-4-phenyl-2-[1-(phenylsulfonyl)piperidin-4-
vl|thiazole-5-carboxamide 1148158-44-4P,
2-[1-[2-(1H-Indol-3-y1)ethy1]piperidin-4-y1]-N-hydroxy-4-phenylthiazole-5-
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1148158-45-5P, N-Hydroxy-4-phenyl-2-(pyridin-2-yl)thiazole-5-
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carboxamide 1148158-46-6P, N-Hydroxy-5-[[(4-
methoxyphenyl)sulfonyl]amino]-3-phenylbenzo[b]thiophene-2-carboxamide
1148158-47-7P, N-Hydroxy-5-[2-[4-
(trifluoromethyl)phenyl]acetamido]biphenyl-2-carboxamide
                                                          1148158-48-8P,
N-Hydroxy-2,5-diphenyl-1H-pyrrole-3-carboxamide 1148158-49-9P,
N-Hydroxy-3-pheny1-5-[[(pheny1methy1)sulfony1]amino]benzo[b]thiophene-2-
carboxamide
            1148158-50-2P, 2-[1-(4-Acetamidophenylsulfonyl)piperidin-4-
vll-N-hydroxy-4-phenylthiazole-5-carboxamide
                                              1148158-51-3P.
5-[[(3,4-Dimethoxyphenyl)sulfonyl]amino]-N-hydroxybiphenyl-2-carboxamide
1148158-52-4P, 5-[(Benzyl)amino]-N-hydroxybiphenyl-2-carboxamide
1148158-53-5P, N-Hydroxy-3-phenyl-5-[[(thien-2-
yl)sulfonyl]amino]benzo[b]thiophene-2-carboxamide
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, N-Hydroxy-2-phenyl-4-(phenylthio)pyrimidine-5-carboxamide
1148158-55-7P
               1148158-56-8P, 2-(4-Benzylpiperidin-1-yl)-N-hydroxy-4-
phenylpyrimidine-5-carboxamide
                               1148158-57-9P.
N-Hydroxy-1,4-diphenyl-1H-pyrrole-3-carboxamide
                                                1148158-58-0P,
[5-(Hydroxycarbamoy1)-4-phenylthiophen-2-y1]methyl benzylcarbamate
1148158-59-1P, [5-(Hydroxycarbamoyl)-4-phenylthiophen-2-yl]methyl
N-(benzyl)-N-(methyl)carbamate 1148158-60-4P,
5-[[Benzyl(methyl)amino]methyl]-N-hydroxy-3-phenylthiophene-2-carboxamide
1148158-61-5P, N-Hydroxy-N'-phenyl-3-phenylthiophene-2,5-dicarboxamide
1148158-68-2P, Methyl 3-phenyl-5-(phenylcarbamoyl)thiophene-2-carboxylate
1148158-69-3P, 5-(Dibenzo[b,f][1,4]oxazepin-11-vl)-N-hydroxy-3-
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1148158-82-0P, 5-(3-Bromophenyl)-1-tert-butyl-N-hydroxy-1H-pyrazole-3-
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carboxamide
pyrazole-3-carboxamide
                       1148158-84-2P,
N-Hvdroxv-5-(3-morpholinophenvl)-1-phenvl-1H-pvrazole-3-carboxamide
1148158-85-3P, 1-(2,4-Dichlorophenyl)-N-hydroxy-5-(3-morpholinophenyl)-1H-
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1-(2,4-Dichlorophenyl)-N-hydroxy-5-[3-(indolin-1-yl)phenyl]-1H-pyrazole-3-
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(trifluoromethyl)phenyl]-1H-pyrazole-3-carboxamide
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5-[3'-(Trifluoromethyl)biphenyl-3-yl]-1H-pyrazole-3-carboxamide
1148158-91-1P, N-Hydroxy-5-[3'-(trifluoromethyl)biphenyl-3-yl]-1H-pyrazole-
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3-carboxamide
pvrazole-3-carboxamide
                        1148158-93-3P,
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3-[1-(4-Bromophenyl)-3-phenyl-1H-pyrazol-4-yl]-N-hydroxypropanamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (preparation of N-hydroxybenzamide and N-hydroxyheterocyclecarboxamide
   derivs. as inhibitors of histone deacetylase (HDAC) for
   treating cell proliferative diseases and conditions)
1148158-33-1P, N-Hydroxy-2,4-diphenylpyrimidine-5-carboxamide
1148158-35-3F, 4-(3-Fluorophenyl)-N-hydroxy-2-phenylpyrimidine-5-
carboxamide
             1148158-54-6P,
N-Hydroxy-2-phenyl-4-(phenylthio)pyrimidine-5-carboxamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (preparation of N-hydroxybenzamide and N-hydroxyheterocyclecarboxamide
   derivs. as inhibitors of histone deacetylase (HDAC) for
  treating cell proliferative diseases and conditions)
1148158-33-1 HCAPLUS
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5-Pvrimidinecarboxamide, N-hvdroxv-2, 4-diphenvl- (CA INDEX NAME)

RN

CN

1148158-35-3 HCAPLUS

CN 5-Pvrimidinecarboxamide, 4-(3-fluorophenvl)-N-hvdroxv-2-phenvl- (CA INDEX NAME)

RN 1148158-54-6 HCAPLUS

5-Pyrimidinecarboxamide, N-hydroxy-2-phenyl-4-(phenylthio)- (CA INDEX CN NAME)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 12 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2009:452497 HCAPLUS Full-text DOCUMENT NUMBER: 150:423213

Preparation of pyrimidinyl-propionic acid derivatives TITLE:

as PPAR agonists Shen, Jianhua; Mei, Changlin; Jiang, Hualiang; Dai, INVENTOR(S):

Bin; Ye, Yangliang; Xiong, Xishan; Tang, Jing; Fu, Lili

PATENT ASSIGNEE(S):

Shanghai Institute of Materia Medica, Cas, Peop. Rep. China; Changzhen Hospital, Shanghai

SOURCE: PCT Int. Appl., 65pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.						DATE								DATE			
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		GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	
		KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	ME,	
		MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	
	PT, RO, RS,				RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	TJ,	TM,	TN,	
	TR, TT, TZ,				UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW					
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		IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	
		GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	
		BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM										
PRIORI	. :	,,,					WO 2	007-	CN70	874		20071011 <						
OTHER		CASREACT 150:423213; MARPAT 150:423213																
ED E	ntered	STN	: 1	6 Ap	r 20	2009												
CT																		

$$\begin{array}{c|c} & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

- AB Title compds. I [X = CH2, CH(OH), C(O) O, NH, S, or SO2; Y = (un)substituted phenyl; n = 0, 2, 3, or 4; R1 = alkyl, alkoxyl, mercapto, CN, NO2, OH, CF3, etc.; R2 = H, Ph, alkyl, alkoxyl, amino, mercapto, CN, etc.; R3 = H, alkoxyl, halo, mercapto, CN, NO2, OH, etc.; R4 = H, alkyl, alkoxyl, mercapto, OH, CF3, etc.; R5 = H, alkyl or (un)substituted phenyl; R6 = H or alkyl], and their pharmaceutically acceptable salts, solvates, or hydrates, are prepared The compds. are useful as PPARy agonist, through activating PPAR-RXR heterodimers that interacts with specific DNA response elements within promoter regions of target gene, particularly in the treatment and prevention of polycystic kidney and cancer. Thus, e.g., II was prepared in 8 steps starting from phenol and ethyl 2-bromopropionate. As PPAR agonist, II exhibited EC50 value of 6.76 µM in transient transfection and transcription assay.
- CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1, 63

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956223-18-0P, 3-[4-[[6-(4-Benzylpiperazin-1-v1)-2-methoxypyrimidin-4-
    yl]oxy]phenyl]-2-methyl-2-phenoxypropionic acid 1141923-47-89,
     3-[4-[[6-(4-Benzylpiperazin-1-v1)-2-phenylpyrimidin-4-v1]oxylphenyl]-2-
     methyl-2-phenoxypropionic acid 1141923-48-9P,
     3-[4-[[6-(4-Benzylpiperazin-1-yl)-2-methylpyrimidin-4-yl]oxy]phenyl]-2-
     methyl-2-phenoxypropionic acid 1141923-49-0P,
     3-[4-[[6-(4-Benzylpiperazin-1-y1)-2-ethylpyrimidin-4-y1]oxy]phenyl]-2-
     methyl-2-phenoxypropionic acid 1141923-58-1P,
     3-[4-[(2-Amino-6-[4-(2-iodobenzyl)piperazin-1-vl]pyrimidin-4-
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     3-[4-[[2-Amino-6-[4-(2-methoxybenzyl)piperazin-1-yl]pyrimidin-4-
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     2-methyl-2-phenoxypropionic acid 1141923-84-3P,
     3-[4-[[6-(4-Benzylpiperazin-1-y1)-2-(piperazin-1-y1)pyrimidin-4-
     yl]oxy]phenyl]-2-methyl-2-phenoxypropionic acid 1141923-85-4P,
     3-[4-[[2,6-Bis(4-benzylpiperazin-1-yl)pyrimidin-4-yl]oxy]phenyl]-2-methyl-
     2-phenoxypropionic acid
     RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN
     (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (preparation of pyrimidinyl-propionic acid derivs. as PPAR agonists useful
        in treatment and prevention of polycystic kidney and cancer)
ΤТ
     1141923-47-8F, 3-[4-[[6-(4-Benzylpiperazin-1-yl)-2-
     phenylpyrimidin-4-yl]oxy]phenyl]-2-methyl-2-phenoxypropionic acid
     RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN
     (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (preparation of pyrimidinyl-propionic acid derivs. as PPAR agonists useful
        in treatment and prevention of polycystic kidney and cancer)
RN
     1141923-47-8 HCAPLUS
CN
     Benzenepropanoic acid, α-methyl-α-phenoxy-4-[[2-phenyl-6-[4-
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Ph—CH2 N N CH2 - CO2H

PR-CH2 N CH2-C-02H

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

(phenylmethyl)-1-piperazinyl]-4-pyrimidinylloxyl- (CA INDEX NAME)

L52 ANSWER 13 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2009:769551 HCAPLUS Full-text

DOCUMENT NUMBER: 151:70320

TITLE: Method using lifespan-altering compounds for altering the lifespan of eukaryotic organisms, and screening

for such compounds
INVENTOR(S): Goldfarb, David Scott

PATENT ASSIGNEE(S): University of Rochester, USA SOURCE: U.S. Pat. Appl. Publ., 57pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE DATE APPLICATION NO. ---- ------US 20090163545 A1 20090625 US 2008-341615 20081222 <--WO 2009086303 A2 20090709 WO 2008-US88016 20081222 <--W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM US 2007-16362P P 20071221 <--PRIORITY APPLN. INFO.: US 2008-23801P P 20080125

ED Entered STN: 26 Jun 2009

AB The invention discloses a method for altering the lifespan of a eukaryotic organism. The method comprises the steps of providing a lifespan-altering compound, and administering an effective amount of the compound to a eukaryotic organism, such that the lifespan of the organism is altered. In one embodiment, the compound is identified using the DeaD assay. [This abstract record is one of 20 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

INCL 514312000; 514688000; 514641000

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RL: FAC (Pharmacological activity); BIOL (Biological study)
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(method using lifespan-altering compds. for altering lifespan of eukarvotic organisms, and screening for such compds.)

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RL: PAC (Pharmacological activity); BIOL (Biological study) (method using lifespan-altering compds. for altering lifespan of eukaryotic organisms, and screening for such compds.)

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477888-96-3 478029-68-4 RL: PAC (Pharmacological activity); BIOL (Biological study)

(method using lifespan-altering compds, for altering lifespan of eukarvotic organisms, and screening for such compds.) 20954-77-2 HCAPLUS

RM

CN 5-Pvrimidinecarbonitrile, 4-amino-2,6-diphenvl- (CA INDEX NAME)

- RN 118644-66-9 HCAPLUS
- CN Morpholine, 4-(2,6-diphenyl-4-pyrimidinyl)- (CA INDEX NAME)

- RN 300359-10-8 HCAPLUS
- CN Pyrimidine, 4-methyl-6-phenoxy-2-phenyl- (CA INDEX NAME)

- RN 303145-54-2 HCAPLUS
- CN Pyrimidine, 4-[3-[[(4-chloropheny1) sulfony1] methy1]-4-nitropheny1]-2-(4-methy1pheny1)- (CA INDEX NAME)

- RN 312271-56-0 HCAPLUS
- CN Ethanone, 1-[4-(methylthio)-2-phenyl-6-(1-pyrrolidinyl)-5-pyrimidinyl]-(CA INDEX NAME)

- RN 320421-36-1 HCAPLUS
- CN Pyrimidine, 2-phenyl-4-[(phenylsulfinyl)methyl]-6-(phenylthio)- (CA INDEX NAME)

- RN 477888-96-3 HCAPLUS
- CN Pyrimidine, 4-[4-(3-fluoropropoxy)phenyl]-2-phenyl- (CA INDEX NAME)

- RN 478029-68-4 HCAPLUS
- CN Pyrimidine, 5-methoxy-4-(3-methylphenoxy)-2-phenyl- (CA INDEX NAME)



L52 ANSWER 14 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2008:743719 HCAPLUS Full-text

DOCUMENT NUMBER: 149:79639

TITLE: O-linked pyrimidin-4-amine-based compounds,

preparation, compositions comprising them, and methods

of their use to treat cancer

INVENTOR(S): Augeri, David J.; Carlsen, Marianne; Carson, Kenneth G.; Fu, Qinghong; Healy, Jason P.; Heim-Riether, Alexander; Jessop, Theodore C.; Keyes, Philip E.;

Shen, Min; Tarver, James E.; Taylor, Jerry A.; Xu,

Xiaolian USA

PATENT ASSIGNEE(S):

SOURCE: U.S. Pat. Appl. Publ., 52pp.

CODEN: USXXCO DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 149:79639

Entered STN: 20 Jun 2008

GI

- AB O-linked pyrimidin-4-amine-based compds. of formula I, pharmaceutical compns. comprising them, and methods of their use are described. Compds. of formula I wherein X is (CH2)1-3; L1 is a bond, CO, SOW and (un)substituted methylene; A is (un)substituted alkyl, aryl and heterocyclyl; R1 and R2 are independently H, halo, OH, NHZ, NO2, CN, COZH and derivs., and (un)substituted alkyl; each R3 are independently = O and (un)substituted lower alkyl; m is 0 3 if X is CH2; m is 0 4 if X is CH2CH2; and m is 0 5 if X is (CH2)3; and their pharmaceutically acceptable salts thereof, are claimed. Example compound II was prepared by a multistep procedure (procedure given). All the invention compds. were evaluated for their decoxycytidine kinase inhibitory activity.
- INCL 514235800; 544317000; 544296000; 544250000; 544212000; 544123000; 514274000; 514267000; 514241000
- CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapsutic use); BIOL (Biological study); PREP (Preparation)

; USES (Uses)

(drug candidate; preparation of O-linked pyrimidinamine-based compds. as deoxycytidine kinase inhibitors useful in the <u>treatment</u> of

IT 1033834-46-6P

RL: FAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(drug candidate; preparation of O-linked pyrimidinamine-based compds. as deoxycytidine kinase inhibitors useful in the  $\underline{\text{treatment}}$  of cancer)

RN 1033834-46-6 HCAPLUS

CN 4-Pyrimidinamine, 5-fluoro-2-[[1-[6-(2-methoxyphenoxy)-2-phenyl-4-pyrimidinyl]-4-piperidinyl]oxy]- (CA INDEX NAME)

L52 ANSWER 15 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2007:484949 HCAPLUS Full-text

DOCUMENT NUMBER: 146:475681

TITLE: Immunomodulatory heterocyclic compounds that target and inhibit the pY binding site of tyrosine kinase

p561ck SH2 domain
INVENTOR(S): Mackerell, Alexan

INVENTOR(S): Mackerell, Alexander; Hayashi, Jun
PATENT ASSIGNEE(S): University of Maryland, Baltimore, USA

SOURCE: U.S. Pat. Appl. Publ., 90 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 146:475681

ED Entered STN: 04 May 2007

AB Small mol.-weight non-peptidic compds. block lck SH2 domain-dependent

interactions. The inhibitors omit phosphotyrosine (pY) or related moieties. INCL 514369000

CC 1-7 (Pharmacology)

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RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(immunomodulatory heterocyclic compound inhibitors of pY binding site of tyrosine kinase p561ck SH2 domain)

477859-41-9

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(immunomodulatory heterocyclic compound inhibitors of pY binding site of tyrosine kinase p561ck SH2 domain)

RN 477859-41-9 HCAPLUS

CN 5-Pyrimidinecarboxamide, 4-[(4-chlorophenyl)thio]-2-phenyl-N-(phenylmethyl) - (CA INDEX NAME)

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

L52 ANSWER 16 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN 2002:408655 HCAPLUS Full-text

Preparation of pyrimidine derivatives as NK1

antagonists

INVENTOR(S): Stadler, Heinz

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz. SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 137:6189

ED Entered STN: 31 May 2002

GI

AB The title compds. [I; R1 = alkyl, alkoxy, pyridinyl, pyrimidinyl, etc.; R2 = H, alkyl, alkoxy, halo, CF3; R3, R33 = H, alkyl; R4 = halo, CF3, alkoxy; R5 = H, alkyl; X = CONR, NRCO; Y = O, S, SO2, NR; m = 0-2] which have a good affinity to the NK1 receptor and therefore are suitable in the treatment of diseases, related to this receptor, were prepared and formulated. Thus, reacting 4-chloro-2-methylsulfanylpyrimidine-5- carboxylic acid Et ester with o-cresol in the presence of Cs2CO3 in MeCN (99%) followed by saponification (47%), and amidation of the resulting acid with [3,5bis(trifluoromethyl)benzyl]methylamine (96%) afforded I [R1 = SMe; R2 = 2-Me; R3, R33 = H; R4 = 3.5 - (CF3)2; Y = 0; X = CONMel which showed pKi of 7.38 against NK-1 receptor binding.

432520-82-6P

432520-83-7P

432520-89-3P

432520-94-0P

ICM C07D239-56 IC

ICS C07D239-46; C07D239-52; A61K031-505; A61P025-00

28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63 ΙT 432520-79-1P 432520-80-4P 432520-81-5P 432520-84-8P 432520-85-9P 432520-87-1P 432520-88-2P 432520-90-6P 432520-91-7P 432520-92-8P 432520-93-9P

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432521-49-8P

ΙT

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of pyrimidine derivs, as NK1 antagonists)

75-65-0, tert-Butanol, reactions 87-13-8, Diethyl ethoxymethylenemalonate 95-48-7, o-Cresol, reactions 108-00-9. 2-Dimethylaminoethylamine 108-01-0, 2-Dimethylaminoethanol 109-01-3. 1-Methylpiperazine 110-85-0, Piperazine, reactions 110-91-8,

Morpholine, reactions 123-90-0, Thiomorpholine 622-40-2,

N-(2-Hydroxyethyl)morpholine 5909-24-0,

4-Chloro-2-methanesulfanylpyrimidine-5-carboxylic acid ethyl ester 15400-46-1 15521-18-3, 2-Dimethylaminopropanol 39989-43-0,

3,5-Dichlorobenzylamine 56406-44-1 77775-71-4 138588-40-6 148452-35-1 159820-24-3 289686-69-7 432521-64-7 432521-65-8

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RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyrimidine derivs. as NK1 antagonists)  $432521{-}18{-}19 - 432521{-}49{-}89$ 

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); TRU (Thexapeutic use); BTOL (Biological study); PREP (Preparation): USES (Uses)

(preparation of pyrimidine derivs. as NK1 antagonists)

RN 432521-18-1 HCAPLUS

CN 5-Pyrimidinecarboxamide, N-[[3,5-bis(trifluoromethyl)phenyl]methyl]-N-methyl-4-(2-methylphenoxy)-2-phenyl- (CA INDEX NAME)

RN 432521-49-8 HCAPLUS

CN Benzeneacetamide, N,α,α-trimethyl-N-[4-(2-methylphenoxy)-2phenyl-5-pyrimidinyl]-3,5-bis(trifluoromethyl)- (CA INDEX NAME)

IT 432521-69-2 432521-73-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of pyrimidine derivs. as NK1 antagonists)

RN 432521-69-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-methylphenoxy)-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 432521-73-8 HCAPLUS

CN 5-Pyrimidinamine, N-methyl-4-(2-methylphenoxy)-2-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 17 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2002:220584 HCAPLUS Full-text

DOCUMENT NUMBER: 136:247584

TITLE: Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes,

and Alzheimer's disease
INVENTOR(S): Bebbington, David; Knegtel, Ronald; Golec, Julian M.

C.; Li, Pan; Davies, Robert; Charrier, Jean-Damien

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 356 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

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JP	2002-559414	A3	20011220	<
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US	2001-34683	A1	20011220	<
IN	2003-KN795	A3	20030619	<
US	2003-624800	A3	20030722	<
US	2004-775699	A1	20040210	<
JP	2004-366925	A3	20041217	<
AU	2006-201396	A3	20060404	<

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 136:247584

ED Entered STN: 22 Mar 2002 GI

AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinly, pyrimidinyl, heteroaryl, heteroaryl, heteroaryl, pyrimidinyl, pyrimidin

C(R6)20, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6: R = H or (un)substituted aliphatic, (hetero)arvl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliphatic), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliphatic), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroarv1; R6 and R7 = independently H or (un)substituted aliphatic group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepared as protein kinase inhibitors, especially as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (pyrimidinyl)pyrazolamines and indazolamines I [wherein Z1 = CR9; Z2 and Z3 = N; Z4 = CRy]. Examples include data for approx. 300 invention compds. prepared by a variety of synthetic methods and bioassay results for the inhibition of GSK- $\beta$ 3, Aurora-2, ERK, and Src. For instance, the N-(4pyrimidinv1)-3-pyrazolamine II was prepared and exhibited Ki values of < 0.1  $\mu M$  for glycogen synthetase kinase 3 $\beta$  (GSK-3 $\beta$ ) and 0.1-1.0  $\mu M$  for Aurora-2. ICM C07D403-12 ICS C07D401-14; A61K031-506; A61K031-53; A61P035-00; C07D403-14; C07D405-14; C07D521-00 28-8 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1 607-68-1P, 2,4-Dichloroguinazoline 41339-17-7P, 5-Nitro-1H-indazol-3-ylamine 61272-71-7P, 5-Bromo-1H-indazol-3-ylamine 61272-72-8P, 5-Fluoro-1H-indazol-3-vlamine 404826-17-1P, 2-(2-Trifluoromethylphenyl)pyrido[2,3-d][1,3]oxazin-4-one 404826-18-2P, 2-(2-Trifluoromethylbenzoylamino)nicotinamide 404826-19-3P, 4-Chloro-2-(3,5-dichlorophenyl)quinazoline 404826-26-2P, [4-(4-Methylpiperidin-1-y1)pyrimidin-2-y1](5-methyl-2H-pyrazo1-3-y1)amine 404827-60-7P, 7-Fluoro-1H-indazo1-3-ylamine 404827-65-2P, 5.7-Difluoro-1H-indazol-3-vlamine 404827-75-4P. 6-Fluoro-1H-indazol-3-vlamine 404827-76-5P, 7-Fluoro-6-trifluoromethyl-1H-indazol-3-ylamine 404827-77-6P. 6-Bromo-1H-indazol-3-vlamine 404827-78-7P, 4-Fluoro-1H-indazol-3-vlamine 404827-79-8P, 4-Pyrrol-1-yl-1H-indazol-3-ylamine 404827-80-1P, 4-Chloro-5,6-dimethyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-81-2P, 4-Chloro-2-(2-chlorophenyl)-5,6-dimethylpyrimidine 404827-82-3P, 4-Chloro-6-methyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2trifluoromethylphenyl)pyrimidine 404827-84-5P. 4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-85-6P, 4-Chloro-2-(2, 4-dichlorophenyl)-5, 6-dimethylpyrimidine 404827-86-7P, 4-Chloro-6-(2-chloropheny1)-2-(2trifluoromethylphenyl)pyrimidine 404827-87-89, 4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine 404827-88-9P, 4-Chloro-6-pyridin-2-yl-2-(2trifluoromethylphenyl)pyrimidine 404827-89-0P. 6-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3dlpvrimidine 404827-90-3P, 7-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[3,4-d]pyrimidine 404827-91-4P, 4-Chloro-2-(4-fluoro-2-trifluoromethylphenyl)quinazoline 404827-92-5P, 4-Chloro-2-(2-chloro-5-trifluoromethylphenyl)quinazoline 404827-93-6P, 4-Chloro-2-(2-chloro-4-nitrophenyl) quinazoline 404827-94-7P, 4-Chloro-2-(2-trifluoromethylphenyl)guinazoline 404827-95-8P. 4-Chloro-2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidine 404827-96-9P, 4-Chloro-2-(2-chlorophenyl)-6,7,8,9-tetrahydro-5Hcycloheptapyrimidine 404827-97-0P, 4-Chloro-2-(2-trifluoromethylphenyl)-5,6,7,8,9,10hexahydrocyclooctapyrimidine 404827-98-1P,

IT

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4-Chloro-8-methoxy-2-(2-trifluoromethylphenyl)guinazoline
                                                          404828-00-8P,
2-(4-Chloroquinazolin-2-yl)benzonitrile 404828-01-9P,
6-Methyl-2-(2-trifluoromethylphenyl)-3H-pyrimidin-4-one
494828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-
pyrimidin-4-one 404828-03-1P, 2-(2-Chloro-5-trifluoromethylphenyl)-3H-
quinazolin-4-one 404828-04-2P, 2-(4-Fluoro-2-trifluoromethylphenyl)-3H-
quinazolin-4-one 404828-05-3P, 2-(4-Nitro-2-chlorophenyl)-3H-quinazolin-
       404828-06-4P, 2-(5-Fluoro-2-trifluoromethylphenyl)-3H-quinazolin-4-
      404828-30-4P, (2-Chloroquinazolin-4-v1)(5-methyl-1H-pyrazol-3-
          404829-31-8P,
vl)amine
(6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-59-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (intermediate; preparation of heterocyclylpyrazolamines and analogs as
   protein kinase inhibitors for treatment of cancer, diabetes,
   and Alzheimer's disease)
404826-28-4P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-
Methyl-2H-pyrazol-3-vl)amine 404826-29-5P,
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](1H-
indazol-3-vl)amine 404826-30-8P,
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydropyrido[3,4-d]pyrimidin-4-yl]amine
                                             404826-31-9P.
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](7-
fluoro-1H-indazol-3-vl)amine
                             404826-32-0P.
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](5-
fluoro-1H-indazo1-3-y1)amine
                             404826-33-1P,
[2-(2-Chlorophenv1)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-v1] (5,7-
difluoro-1H-indazol-3-yl)amine 404826-34-2P,
(7-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroquinazolin-4-yl]amine 404826-35-3P,
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-yl]amine 404826-36-4P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-vl]amine 404826-37-5P,
(5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-vllamine 404826-38-6P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-
tetrahydro-5H-cycloheptapyrimidin-4-vllamine 404826-39-7P,
[6-Benzyl-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3-
d]pyrimidin-4-y1](5-fluoro-1H-indazol-3-y1)amine
                                                  404826-40-0P,
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-5H-
cvcloheptapyrimidin-4-vllamine 404826-41-1P,
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-
5H-cvcloheptapyrimidin-4-vllamine 404826-42-2P,
(5-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-
5H-cycloheptapyrimidin-4-vllamine 404826-43-3P.
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydropyrido[4,3-d]pyrimidin-4-yl]amine 404826-44-4P,
(1H-Indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydroguinazolin-
4-vllamine
            404826-46-6P.
(1H-Indazol-3-y1)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-y1]amine
404826-47-7P, (1H-Indazol-3-yl)[6-phenyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yllamine
                                            404826-48-8P.
(1H-Indazol-3-vl)[6-(pyridin-4-vl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
yl]amine
          404826-49-99,
(1H-Indazol-3-yl) [6-(pyridin-2-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
vllamine 404826-50-2P.
[6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
            404826-51-3P.
3-v1)amine
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[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
vl)amine
          404826-52-4P.
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
indazo1-3-y1)amine 404826-53-5P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
494826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
                                   404826-55-7P,
yl](7-fluoro-1H-indazol-3-yl)amine
(5,7-Difluoro-1H-indazo1-3-v1)[5,6-Dimethy1-2-(2-
                                           404826-56-8P.
trifluoromethylphenyl)pyrimidin-4-yllamine
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine
          404826-57-9P.
[2-(2-Chlorophenv1)-5,6-dimethylpyrimidin-4-v1](7-fluoro-1H-indazol-3-
          404826-58-0P,
vl)amine
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-fluoro-1H-indazol-3-
          404826-59-1P,
yl)amine
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-60-4P, (5-Methyl-2H-pyrazol-3-yl) |2-(2-methylphenyl)quinazolin-4-
          404826-61-5P, [2-(2,4-Difluorophenyl)quinazolin-4-yl](5-methyl-
yl]amine
2H-pvrazol-3-vl)amine 404826-62-6P,
[2-(2,5-Dimethoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404826-63-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404826-64-8P, [2-(2-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-
vl)amine
pvrazol-3-vl)amine
                   404826-65-9P.
[2-(2,6-Dimethylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404826-66-0P, [2-(2-Acetylphenyl)guinazolin-4-v1](5-methyl-2H-pyrazol-3-
          404826-67-1P, [2-(2,3-Dimethylphenyl)quinazolin-4-yl](5-methyl-
vl)amine
                      404826-68-2P,
2H-pyrazol-3-yl)amine
(5-Methyl-2H-pyrazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-69-3P, [2-(2-Ethylphenyl)quinazolin-4-yl](5-Methyl-2H-
pvrazo1-3-v1)amine 404826-70-6P,
(2-Biphenyl-2-ylquinazolin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404826-71-7P, [2-(2-Hydroxyphenyl)quinazolin-4-yl](5-Methyl-2H-pyrazol-3-
vl)amine
          404826-72-8P, [2-(2-Ethoxyphenyl)quinazolin-4-yl](5-Methyl-2H-
                    404826-73-9P.
pvrazol-3-vl)amine
[5-(Thiophen-2-yl)-2H-pyrazol-3-yl][2-(2-trifluoromethylphenyl)quinazolin-
            404826-74-0P, [4-(Thiophen-2-yl)-2H-pyrazol-3-yl][2-(2-
trifluoromethylphenyl)quinazolin-4-vl|amine
                                            404826-75-1P,
(4-Phenyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine
           404826-76-2P, (5-tert-Buty1-2H-pyrazo1-3-y1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-77-3P,
(5-Phenyl-2H-pyrazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
         404826-78-4P, (4,5-Diphenyl-2H-pyrazol-3-yl)[2-(2-
vl]amine
trifluoromethylphenyl)guinazolin-4-yllamine 404826-79-5P.
(4-Carbamoy1-2H-pyrazo1-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-80-8P, (2H-Pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-81-9P.
(5-Hydroxy-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-82-0P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-83-1P,
(5-Methoxymethyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-84-2P, (1H-Indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-85-3P.
(4-Chloro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
           404826-86-4P, (5-Fluoro-1H-indazol-3-yl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-87-5P,
(7-Fluoro-1H-indazol-3-y1) [2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine
          404826-88-6P, (5-Methvl-1H-indazol-3-vl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-89-7P,
[2-(2,6-Dichlorophenyl)quinazolin-4-v1](5-fluoro-1H-indazol-3-v1)amine
404826-90-0P, [2-(2-Chlorophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine
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404826-91-1P, (5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-92-2P,
(4-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)guinazolin-
4-yl]amine
           404826-93-3P, [2-(2,6-Dichlorophenyl)quinazolin-4-yl](1H-
indazol-3-vl)amine 404826-94-4P.
(1H-Indazol-3-yl)[2-(2-methylphenyl)quinazolin-4-yl]amine 404826-95-5P,
(7-Trifluoromethyl-1H-indazol-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-
            404826-96-6P, (6-Trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine
                                             404826-98-8P.
(5,7-Difluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)guinazolin-4-
vllamine
          404826-99-9P, (4-Pyrrol-1-yl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                             404827-00-5P,
(5-Amino-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404827-01-6P, [2-(2-Chlorophenyl)quinazolin-4-yl](7-fluoro-1H-indazol-3-
          404827-02-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-fluoro-1H-
vl)amine
indazol-3-vl)amine
                   404827-03-8P,
[2-(2-Chlorophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-04-9P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-trifluoromethyl-1H-
indazo1-3-v1)amine 404827-05-0P,
[2-(2-Cyanophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine
(6-Chloro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
         404827-08-3P, (7-Fluoro-6-trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)guinazolin-4-yllamine
                                             404827-09-4P.
(6-Bromo-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404827-10-7P, [2-(2,4-Bis-trifluoromethylphenyl)guinazolin-4-yl] (5,7-
difluoro-1H-indazol-3-v1)amine
                               404827-11-8P,
(5,7-Difluoro-1H-indazol-3-y1)[2-(4-fluoro-2-
trifluoromethylphenyl)quinazolin-4-vl]amine
                                            404827-12-9P,
[2-(2-Bromophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-13-0P, (5,7-Difluoro-1H-indazo1-3-v1)[2-(5-fluoro-2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-14-1P,
[2-(2,4-Dichlorophenyl)guinazolin-4-vl](5,7-Difluoro-1H-indazol-3-vl)amine
404827-15-2P, [2-(2-Chloro-5-trifluoromethylphenyl)quinazolin-4-yl](5,7-
Difluoro-1H-indazol-3-vl)amine 404827-16-3P.
(4-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404827-18-5P 404827-20-9P,
vllamine
(5-Fluoro-1H-indazol-3-v1)[8-methoxy-2-(2-trifluoromethylphenyl)quinazolin-
                            404827-21-0P 404827-23-2P,
4-yl]amine trifluoroacetate
(5,7-Difluoro-1H-indazol-3-v1)[8-methoxv-2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine trifluoroacetate
404827-24-3P, [2-(2-Chloropyridin-3-v1)quinazolin-4-v1](5,7-Difluoro-1H-
indazol-3-yl)amine
                   404827-26-5P,
[2-(4-Amino-2-chlorophenyl)guinazolin-4-yl](5.7-Difluoro-1H-indazol-3-
v1) amine 404827-27-6P, (4,5,6,7-Tetrahydro-1H-indazol-3-v1) [2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404827-28-7P.
(1H-Pyrazolo[4,3-b]pyridin-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
         404827-29-8P, (1H-Pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vl]amine
                                             404827-30-1P,
(6-Methyl-1H-pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
trifluoromethylphenyl)guinazolin-4-vllamine
                                             404827-31-2P,
(6-0xo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404827-32-3P,
[6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-
            404827-33-4P,
3-vl)amine
(5-Furan-2-v1-2H-pyrazo1-3-v1)[6-methy1-2-(2-
                                            404827-34-59,
trifluoromethoxyphenyl)pyrimidin-4-yl]amine
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404827-35-6P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-
methyl-2H-pyrazol-3-yl)amine 404827-36-7P 404827-37-8P,
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-
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vllamine 404827-38-9P, (5,7-Difluoro-1H-indazol-3-vl)[2-(2-
trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-yl]amine 404827-40-3P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate) 404827-41-4P,
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine 404827-42-5P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-
indazo1-3-v1)amine 404827-43-6P,
(1H-Indazol-3-v1)[2-(2-trifluoromethylphenyl)-6.7-dihydro-5H-
cvclopentapyrimidin-4-vllamine
                               404827-44-7P,
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-vllamine 404827-45-8P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine
                               404827-46-9P.
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-
          404827-47-0P, [2-(2-Chlorophenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-v1](7-fluoro-1H-indazol-3-v1)amine
                                                         404827-48-1P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-
1H-indazol-3-v1)amine 404827-49-2P,
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine
                                        404827-50-5P,
(7-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vllamine
                                        404827-51-6P.
(5,7-Difluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vllamine
                                       404827-52-79,
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
          404827-53-8P,
vl)amine
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-yl)amine 404827-54-9P, (6-Fluoro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine
                                            404827-55-0P,
3-[[2-(2-Trifluoromethylphenyl)quinazolin-4-yl]amino]-1H-indazole-5-
carboxvlic acid methyl ester 404827-56-1P.
(5-Methyl-2H-pyrazol-3-yl) [2-(2-naphthyl-1-yl)quinazolin-4-yl]amine
404827-58-3P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](7-fluoro-1H-
indazol-3-vl)amine bis(trifluoroacetate) 404827-62-9P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                                404827-64-1P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                                404827-67-4P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](1H-indazol-3-vl)amine
bis(trifluoroacetate)
                       404827-70-9P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](7-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate) 404827-72-1P.
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate) 404827-74-3P.
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
v1) amine bis(trifluoroacetate) 404828-07-5P.
(1H-Indazol-3-v1)(2-phenylquinazolin-4-v1)amine
                                                 404828-08-6P,
(5-Methyl-2H-pyrazol-3-yl)(2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
vl)amine
          404828-09-7P, (5-Methyl-2H-pyrazol-3-yl)(2-phenyl-6,7,8,9-
tetrahydro-5H-cycloheptapyrimidin-4-yl)amine
                                             404828-10-0P.
(5-Methyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)-amine
404828-11-1P, (7-Chloro-2-pyridin-4-ylquinazolin-4-yl) (5-methyl-2H-pyrazol-
            404828-12-2P, (6-Chloro-2-pyridin-4-ylquinazolin-4-yl)(5-
3-vl)amine
methyl-2H-pyrazol-3-yl)amine
                             404828-13-3P,
(2-Cyclohexylquinazolin-4-y1) (5-methyl-2H-pyrazol-3-y1) amine
404828-14-4P, (5-Methyl-2H-pyrazol-3-vl)(2-phenylquinazolin-4-vl)amine
404828-15-5P, [2-(4-Iodophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
v1) amine 404828-16-6P, [2-(4-Chlorophenv1) quinazolin-4-v1] (5-methv1-2H-
pyrazo1-3-y1)amine 404828-17-7P,
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[2-(3,5-Dichlorophenyl)quinazolin-4-v1](5-methyl-2H-pyrazol-3-v1)amine
404828-18-8P, [2-(4-Cyanophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
         404828-19-9P, [2-(3-Iodophenyl)guinazolin-4-vl](5-methyl-2H-
pyrazol-3-yl)amine 404828-20-2P,
[2-(4-Ethylsulfanylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-21-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
          404828-22-4P, [2-(4-tert-Butylphenyl)quinazolin-4-yl](5-methyl-
vl)amine
2H-pyrazo1-3-v1)amine
                      404828-23-5P,
[2-(4-Chlorophenyl)guinazolin-4-vl](5-cyclopropyl-2H-pyrazol-3-yl)amine
404828-24-6P, (2-Benzo[1,3]dioxol-5-vlquinazolin-4-vl)(5-methvl-2H-pvrazol-
3-v1)amine
            404828-25-7P, [2-(4-Dimethylaminophenyl)quinazolin-4-yl](5-
methyl-2H-pyrazol-3-yl)amine
                             404828-26-8P,
[2-(3-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-27-9P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-
dichlorophenyl)quinazolin-4-yl|amine 404828-28-0P,
[2-(3-Ethynylphenyl)guinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-29-1P, [2-(3-Methylphenyl)quinazolin-4-v1](5-methyl-2H-pyrazol-3-
yl)amine
         404828-31-5P, [2-(3,5-Difluorophenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404828-32-6P,
[2-(3-Chloro-4-fluorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
         404828-34-8P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-
trifluoromethylphenyl)quinazolin-4-yl]amine 404828-35-9P,
[2-(3-Cvanophenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404828-36-0P, [2-(3-Isopropylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-37-1P, (5-Methyl-2H-pyrazol-3-vl)(2-pyridin-3-
vl)amine
vlquinazolin-4-vl)amine
                        404828-38-2P,
[2-(3-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-39-3P, [2-(3,5-Bis(trifluoromethyl)phenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-v1)amine 404828-40-6P.
[2-(3-Hvdroxymethylphenyl)quinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404828-41-7P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-phenoxyphenyl)quinazolin-4-
yl]amine 404828-42-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3-
phenoxyphenyl)quinazolin-4-yl]amine 404828-43-9P 404828-44-0P,
                                                404828-45-1P,
(2-Phenylquinazolin-4-vl)(2H-pyrazol-3-vl)amine
(2H-Pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)amine 404828-46-2P,
(5-Ethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-47-3P,
(2-Phenylquinazolin-4-yl) (5-propyl-2H-pyrazol-3-yl)amine
                                                          404828-48-4P,
(5-Isopropyl-2H-pyrazol-3-yl) (2-phenylquinazolin-4-yl) amine
404828-49-5P, (5-tert-Butv1-2H-pvrazo1-3-v1)(2-phenvlquinazolin-4-v1)amine
404828-50-8P, (5-tert-Butyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-
vl)amine
          404828-51-9P, (5-Cyclopentyl-2H-pyrazol-3-yl)(2-
phenylquinazolin-4-yl)amine
                            404828-52-0P,
(5-Phenyl-2H-pyrazol-3-yl) (2-phenylquinazolin-4-yl) amine 404828-53-1P,
(5-Carboxy-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-55-3P,
(5-Hydroxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-56-4P, (5-Methoxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
         404828-57-5P, [5-(3-Hydroxypropy1)-2H-pyrazo1-3-y1](2-
phenylquinazolin-4-vl)amine
                            404828-59-7P,
[5-(3-Methoxypropy1)-2H-pyrazol-3-y1](2-phenylquinazolin-4-y1)amine
404828-60-0P, [5-(3-Aminopropyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
          404828-62-2P, (5-Isopropylcarbamoyl-2H-pyrazol-3-yl)(2-
phenylquinazolin-4-vl)amine
                             404828-63-3P.
(5-Allylcarbamoy1-2H-pyrazo1-3-y1)(2-phenylquinazolin-4-y1)amine
404828-64-4P, [5-(2-Methoxyethylcarbamoyl)-2H-pyrazol-3-yl](2-
phenylquinazolin-4-yl)amine 404828-65-5P,
(5-Benzylcarbamoy1-2H-pyrazo1-3-y1)(2-phenylquinazolin-4-y1)amine
404828-66-6P, (5-Cyclohexylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
yl)amine
         404828-67-7P, (5-Diethylcarbamoyl-2H-pyrazol-3-yl)(2-
phenylquinazolin-4-vl)amine 404828-68-8P,
[5-(Benzylmethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
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404828-69-9P, (2-Phenylquinazolin-4-vl)(5-propylcarbamovl-2H-pyrazol-3-
    yl)amine 404828-70-2P, [5-(Ethylisopropylcarbamoyl)-2H-pyrazol-3-yl](2-
    phenylguinazolin-4-vl)amine 404828-71-3P,
    (5-Cyclopropylcarbamoy1-2H-pyrazo1-3-y1)(2-phenylquinazolin-4-y1)amine
    404828-72-4P, (5-Isobutylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
    yl)amine 404828-73-5P, [5-((3S)-3-Methoxymethylpyrrolidine-1-carbonyl)-
    2H-pyrazol-3-v11(2-phenylquinazolin-4-v1)amine 404828-74-6P.
     (2-Phenylquinazolin-4-v1)(5-m-tolylcarbamoyl-2H-pyrazol-3-v1)amine
    404828-75-7P, (2-Phenylquinazolin-4-vl)(5-p-tolylcarbamoy1-2H-pyrazol-3-
    v1) amine 404828-76-8P, (5-Methylcarbamov1-2H-pyrazo1-3-v1)(2-
    phenylquinazolin-4-yl)amine
                                  404828-77-9P,
    [5-(Morpholine-4-carbonyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
    404828-78-0P, [5-(1-Methylpiperazine-4-carbonyl)-2H-pyrazol-3-yl](2-
    phenylguinazolin-4-vl)amine
                                  404828-79-1P.
    [5-(2-Hydroxyethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
               404828-80-4P, (5-Carbamov1-2H-pyrazol-3-v1)(2-phenylguinazolin-
    4-v1)amine
                 404828-82-6P, (4-Bromo-2H-pyrazol-3-v1)(2-phenylquinazolin-4-
    yl)amine 404828-83-7P, (4-Bromo-5-methyl-2H-pyrazol-3-yl)(2-
    phenylguinazolin-4-vl)amine 404828-84-8P,
     (4-Cyano-2H-pyrazol-3-yl) (2-phenylquinazolin-4-yl) amine
                                                             404828-85-9P.
     (5-Methyl-2H-pyrazol-3-yl) (2-morpholin-4-ylquinazolin-4-yl) amine
    404828-86-0P, (5-Methyl-2H-pyrazol-3-yl)(2-piperazin-1-ylquinazolin-4-
               404828-87-1P, [2-(4-Methylpiperidin-1-v1)quinazolin-4-v1](5-
    methyl-2H-pyrazol-3-yl)amine
                                   404828-88-2P,
    [2-(4-Methylpiperazin-1-vl)quinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
     404828-89-3
P. (5-Methyl-2H-pyrazol-3-yl)(2-piperidin-1-ylquinazolin-4-yl)amine
     404828-90-6P, [2-(Azepan-1-v1)quinazolin-4-v1](5-methv1-2H-pvrazol-3-
    v11(5-methv1-2H-pvrazo1-3-v1)amine 404828-92-8P,
    (5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(4-methylpiperidin-1-y1)quinazolin-4-
     4-v1](5-methyl-2H-pyrazol-3-v1)amine 404828-95-1P,
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yl)amine 404828-91-7P, [2-[4-(2-Hydroxyethyl)piperidin-1-yl]quinazolin-4vllamine 404828-94-0P, [2-(1,4-Dioxa-8-azaspiro[4.5]dec-8-vl)guinazolin-[2-(4-Cyclopentylaminopiperidin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-v1)amine 404828-96-2P, [2-(4-Hydroxypiperidin-1-yl)quinazolin-4-yl](5-404828-97-3P. methyl-2H-pyrazol-3-yl)amine (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-hydroxy-4-phenylpiperidin-1yl)quinazolin-4-yl]amine 404828-98-4P, (5-Cvclopropyl-2H-pyrazol-3-v1)[2-(1,3-dihydroisoindol-2-v1)guinazolin-4-404828-99-5P, [2-(Azepan-1-yl)quinazolin-4-yl](5-cvclopropvl-2Hpvrazol-3-vl)amine 404829-00-1P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-dihydro-1H-isoquinolin-2v1)guinazolin-4-v1]amine 404829-01-2P. (5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(2,3-dihydroindo1-1-y1)quinazolin-4yl]amine 404829-02-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4hydroxymethylpiperidin-1-yl)quinazolin-4-yl]amine 404829-03-4P, (5-Cyclopropy1-2H-pyrazol-3-yl)[2-(3,4-dihydro-2H-quinolin-1-vl)quinazolin-404829-05-6P, 5-(Piperidine-1-carbonyl)-2H-pyrazol-3-yl-[2-4-vllamine (piperidine-1-y1)quinazolin-4-y1]amine 404829-06-7P, (5-Hvdroxvmethv1-2H-pvrazol-3-v1)[2-(piperidin-1-v1)quinazolin-4-v1]amine 404829-07-8P, (5-Carbamoy1-2H-pyrazol-3-y1)[2-(piperidin-1-y1)quinazolin-4-404829-08-9P, (5-Carbamoy1-2H-pyrazo1-3-y1)[2-(4vllamine methylpiperidin-1-yl)quinazolin-4-yl]amine 404829-09-0P, (5,7-Difluoro-1H-indazol-3-yl)(2-phenyl-5,6,7,8-tetrahydroquinazolin-4y1)amine 404829-10-3P, (2-Pheny1-5,6,7,8-tetrahydroquinazolin-4-y1)(5trifluoromethy1-1H-indazo1-3-y1)amine 404829-11-4P, (7-Fluoro-1H-indazol-3-v1)(2-phenvlquinazolin-4-v1)amine 404829-12-5P, (5-Fluoro-1H-indazo1-3-yl)(2-phenylquinazolin-4-yl)amine 404829-13-6P, (5,7-Difluoro-1H-indazol-3-v1)(2-phenylquinazolin-4-v1)amine 404829-14-7P, (1H-Indazol-3-yl)[2-(3-trifluoromethylphenyl)quinazolin-4-

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yl]amine 404829-15-8P, (2-Phenylquinazolin-4-yl)(1H-pyrazolo[4,3-
b]pyridin-3-yl)amine
                     404829-16-9P,
[5-(3-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylguinazolin-4-yl)amine 404829-17-0P,
(6-0xo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-(2-
phenylguinazolin-4-yl)amine 404829-18-1P,
[5-(4-Methoxypheny1)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-y1](2-
phenylguinazolin-4-vl)amine 404829-19-2P,
[5-(2,4-Dichlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-
vll(2-phenylquinazolin-4-vl)amine
                                   404829-21-6P,
[6-0xo-5-(3-trifluoromethylphenyl)-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-
3-v11(2-phenylquinazolin-4-v1)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
   analogs as protein kinase inhibitors for treatment of cancer,
   diabetes, and Alzheimer's disease)
404829-22-7P, [6-0xo-5-(4-Phenoxyphenyl)-5,6-dihydro-1H-pyrazolo[4,3-
c]pyridazin-3-yl](2-phenylquinazolin-4-yl)amine
                                                404829-23-8P.
[5-(4-Chlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylquinazolin-4-yl)amine
                             404829-24-9P,
(2-Imidazol-1-vlguinazolin-4-vl)(1H-indazol-3-vl)amine
                                                       404829-25-0P.
(1H-Indazol-3-yl)[2-(2-methylimidazol-1-yl)quinazolin-4-yl]amine
404829-26-1P, (1H-Indazol-3-yl)(2-piperidin-1-ylquinazolin-4-yl)amine
404829-27-2P, (1H-Indazol-3-v1)[2-(octahydroguinolin-1-v1)guinazolin-4-
vllamine
          404829-28-3P, (1H-Indazol-3-yl)[2-(2,6-dimethylmorpholin-4-
vl)quinazolin-4-vl]amine
                          404829-29-4P,
(5-Methyl-2H-pyrazol-3-yl) (2-phenylpyrimidin-4-yl) amine
404829-30-7P, [6-(4-Acetamidophenvlsulfanvl)-2-phenvlpvrimidin-4-
vl](5-methyl-2H-pyrazol-3-yl)amine 404829-32-9P,
[2-(4-Methylpiperidin-1-v1)pyrimidin-4-v1](5-methyl-2H-pyrazol-3-v1)amine
404829-33-0P, [2-(4-Methylpiperidin-1-yl)-5-nitropyrimidin-4-yl](5-methyl-
2H-pyrazol-3-vl)amine
                       404829-34-1P.
[5-Amino-2-(4-Methylpiperidin-1-yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
          404829-35-2P, [5-Amino-6-methyl-2-(4-methylpiperidin-1-
vl)pyrimidin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
                                                  404829-36-3P
, [6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-
vl)amine
          404829-37-4P,
[2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-2-vl-2H-pyrazol-3-
vl)amine
          404829-38-5P,
[5-(Furan-2-y1)-2H-pyrazol-3-y1](6-methy1-2-phenylpyrimidin-4-y1)amine
404829-39-6P
              404829-40-92,
(5-Furan-2-v1-2H-pyrazol-3-v1)[6-methyl-2-(4-
trifluoromethylphenyl)pyrimidin-4-yllamine
                                            404829-41-0P.
[2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-methylpyrimidin-4-yl](5-furan-2-yl-
2H-pyrazol-3-v1)amine 404829-42-1P.
[2-(2,3-Dihydrobenzo[1,4]dioxin-2-vl)-6-ethylpyrimidin-4-vl](5-methyl-2H-
pyrazol-3-yl)amine
                   404829-43-2P,
(6-Ethyl-2-phenylpyrimidin-4-vl) (5-methyl-2H-pyrazol-3-vl)amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2H-
pyrazol-3-vl)amine
                    404829-45-4P,
[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
          404829-46-5P,
vl)amine
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-methy1pheny1)-pyrimidin-4-
yl]amine 404829-47-6P,
(6-Methoxymethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-pyrazol-3-yl)amine
404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazo1-3-v1)amine 404829-49-8P,
(6-Methyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
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ΤТ

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484829-58-1P, [6-Ethy1-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404829-51-2P,
[2-(4-Chlorophenvl)-6-ethylpyrimidin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
tolvlpvrimidin-4-vl)amine 404829-53-4P,
(1H-Indazol-3-v1) (6-methoxymethyl-2-phenylpyrimidin-4-v1) amine
404829-54-5P, (5-Methyl-2H-pyrazol-3-yl)-(2-pyridin-4-ylthieno|3,2-
d|pvrimidin-4-v1)amine
                       404829-55-6P,
(5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[3,4-dlpyrimidin-4-yl)amine
404829-56-7P, (5-Methyl-2H-pyrazol-3-vl)-(2-phenylpyrido[2,3-d]pyrimidin-4-
vl)amine
          404829-57-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)-(2-
phenylpyrido(3,4-d)pyrimidin-4-vl)amine 404829-60-3P,
(5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(4-methylpiperidin-1-y1)pyrrolo[3,2-
                       404829-62-5P.
d]pyrimidin-4-yl]amine
(5-Fluoro-1H-indazol-3-yl)-(2-phenyl-5,6,7,8-tetrahydropyrido[4,3-
d|pvrimidin-4-vl)amine 404829-63-6P,
(1H-Indazol-3-yl)[3-(2-trifluoromethylphenyl)isoquinoline-1-yl]amine
404829-65-8P, (5,7-Difluoro-1H-indazol-3-yl)[3-(2-
trifluoromethylphenyl)isoquinolin-1-yl]amine 404829-66-9P,
(1H-Indazol-3-yl)(2-phenylquinolin-4-yl)amine
                                             404829-67-0P.
(2-Phenylquinolin-4-yl) (1H-pyrazolo[4,3-b]pyridin-3-yl)amine
404829-68-1P, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)quinolin-4-
          404829-69-2P, (5,7-Difluoro-1H-indazol-3-v1)[2-(2-
                                          404829-70-5P,
trifluoromethylphenyl)quinolin-4-yl]amine
[2-(2-Trifluoromethylphenyl)guinolin-4-yl](1H-pyrazolo[4,3-b]pyridin-3-
vl)amine 404829-71-6P, (2-Phenylquinazolin-4-vl) (2H-1,2,4-triazol-3-
vl)amine
          404829-72-7P, (5-Methyl-2H-1,2,4-triazol-3-yl)(2-
phenylquinazolin-4-vl)amine
                            404829-73-8P,
(2H-1,2,4-Triazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404829-74-9P, (5-Methyl-2H-1,2,4-triazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404829-75-0P,
(5-Methylsulfanyl-2H-1, 2, 4-triazol-3-yl) [2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                           404829-76-1P,
(1H-[1,2,4]Triazol-3-yl)[3-(2-trifluoromethylphenyl)isoquinolin-1-yl]amine
404829-77-2P, (2-Phenylquinolin-4-yl) (1H-1,2,4-triazol-3-yl) amine
404829-78-3P, (1H-[1,2,4]Triazol-3-yl)[2-(2-trifluoromethylphenyl)quinolin-
4-v1]amine
            404829-79-4P,
(1H-Indazol-3-yl) [5-methyl-6-morpholin-4-yl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-80-7P
                                                          404829-81-8P
                                           404870-14-0P 404870-16-2P
404845-75-6P
             404870-11-7P 404870-12-8P
              404870-20-8P
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404870-27-5P 404870-28-6P 404870-29-7P 404870-30-0P 404870-31-1P
404870-32-2P 404870-33-3P 404870-34-4P 404870-35-5P 404870-36-6P
404870-37-7P 404870-38-8P 404870-39-9P 404870-40-2P 404870-41-3P
404870-42-4P 404870-43-5P 404870-44-6P 404870-45-7P 404870-46-8P
404870-47-9P 404870-48-0P 404870-49-1P 404870-50-4P 404870-51-5P
404870-52-6P
RL: FAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
  analogs as protein kinase inhibitors for treatment of cancer,
  diabetes, and Alzheimer's disease)
404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2-
trifluoromethylphenyl)pyrimidine 404827-84-5P,
4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine
404827-86-7P, 4-Chloro-6-(2-chloropheny1)-2-(2-
trifluoromethylphenyl)pyrimidine 404827-87-8P.
4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine
404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-
```

pyrimidin-4-one 404829-31-8P,

(6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for <u>treatment</u> of cancer, diabetes, and Alzheimer's disease)

- RN 404827-83-4 HCAPLUS
- CN Pyrimidine, 4-chloro-6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404827-84-5 HCAPLUS
- CN Pyrimidine, 4-chloro-6-phenyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404827-86-7 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

- RN 404827-87-8 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

RN 404828-02-0 HCAPLUS

CN 4(3H)-Pyrimidinone, 6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-31-8 HCAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

IT 404826-28-4P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-

Methyl-2H-pyrazol-3-yl)amine 404826-46-6P,

 $(1H-Indazol-3-yl) \\ [6-methyl-2-(2-trifluoromethylphenyl) pyrimidin-4-yl] \\ amine \\ 404826-47-7P, (1H-Indazol-3-yl) \\ [6-phenyl-2-(2-trifluoromethylphenyl)] \\ [6-phenyl-2-(2-trifluoromethylphenyl)]$ 

trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-48-8P,

 $\begin{array}{ll} (1 \text{H-Indazol-3-yl}) \ [6-(pyridin-4-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl] amine & 404826-49-9P, \end{array}$ 

(1H-Indazol-3-yl)[6-(pyridin-2-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine 404826~50~2P,

[6-(2-Chloropheny1)-2-(2-trifluoromethylpheny1)pyrimidin-4-y1](1H-indazol-3-y1)amine 464826-51-3P,

[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-

yl)amine 404826-52-4P,

[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-indazol-3-yl)amine 404826-53-5P,

[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine 494826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-

y1](7-fluoro-1H-indazol-3-y1)amine 404826-55-7P,

(5,7-Difluoro-1H-indazol-3-yl)[5,6-Dimethyl-2-(2-

trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-56-8P,

[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-

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vl)amine 404326-57-9P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](7-fluoro-1H-indazol-3-
vl)amine 404826-58-0P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-fluoro-1H-indazol-3-
vl)amine 404826-59-1P,
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404827-32-3P, [6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-
vl](5-phenyl-2H-pyrazol-3-yl)amine 404827-33-4P,
(5-Furan-2-v1-2H-pvrazo1-3-v1)[6-methv1-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-yl|amine
                                            404827-34-59,
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
           404827-52-7P,
vl)amine
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
          404827-53-89,
vl)amine
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-v1)amine 404829-29-4P.
(5-Methyl-2H-pyrazol-3-yl) (2-phenylpyrimidin-4-yl) amine
404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
yl](5-methyl-2H-pyrazol-3-yl)amine 404829-36-3P,
[6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-yl)amine
404829-37-4P, [2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-
                            404829-38-5P,
2-y1-2H-pyrazol-3-y1)amine
[5-(Furan-2-yl)-2H-pyrazol-3-yl](6-methyl-2-phenylpyrimidin-4-yl)amine
404829-39-6P
              404829-40-92,
(5-Furan-2-v1-2H-pvrazo1-3-v1)[6-methv1-2-(4-
                                            404829-43-2P.
trifluoromethylphenyl)pyrimidin-4-yl|amine
(6-Ethyl-2-phenylpyrimidin-4-vl) (5-methyl-2H-pyrazol-3-vl) amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2H-
pyrazol-3-yl)amine 404829-45-4P,
[6-Ethv1-2-(4-trifluoromethylphenyl)pyrimidin-4-v1](5-methyl-2H-pyrazol-3-
yl)amine 404829-46-5P,
(5-Furan-2-v1-2H-pyrazol-3-v1)[6-methyl-2-(4-methylphenyl)-pyrimidin-4-
yl]amine 404829-47-6P,
(6-Methoxymethy1-2-phenylpyrimidin-4-y1) (5-methy1-2H-pyrazol-3-y1) amine
404829-48-79, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazol-3-vl)amine 404829-49-8P.
(6-Methyl-2-phenylpyrimidin-4-v1)(5-methyl-2H-pyrazol-3-v1)amine
404829-50-1P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-
2H-pyrazol-3-v1)amine
                      404829-51-2P,
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-vl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
tolylpyrimidin-4-yl)amine 404829-53-4P,
(1H-Indazol-3-vl)(6-methoxymethyl-2-phenylpyrimidin-4-vl)amine
404829-79-4P, (1H-Indazol-3-yl)[5-methyl-6-morpholin-4-yl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yllamine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
   analogs as protein kinase inhibitors for treatment of cancer,
   diabetes, and Alzheimer's disease)
404826-28-4 HCAPLUS
4-Pyrimidinamine, 2-(2-chlorophenyl)-5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-
vl) - (CA INDEX NAME)
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RN

CN

RN 404826-46-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-methyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-47-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-phenyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-48-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(4-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-49-9 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-50-2 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-51-3 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-52-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5-fluoro- (CA INDEX NAME)

RN 404826-53-5 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-(CA INDEX NAME)

RN 404826-54-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-7-fluoro (CA INDEX NAME)

RN 404826-55-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

RN 404826-56-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

- RN 404826-57-9 HCAPLUS
- ${\tt CN-1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-7-1}$

fluoro- (CA INDEX NAME)

RN 404826-58-0 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chloropheny1)-5,6-dimethyl-4-pyrimidinyl]-5fluoro- (CA INDEX NAME)

RN 404826-59-1 HCAPLUS

RN 404827-32-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 404827-33-4 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazo1-3-y1]-6-methy1-2-[2-

(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 404827-34-5 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-lH-pyrazol-3-y1)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 404827-52-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404827-53-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404829-29-4 HCAPLUS
- CN 4-Pyrimidinamine, N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-30-7 HCAPLUS
- CN Acetamide, N-[4-[[6-[(5-methyl-1H-pyrazol-3-yl)amino]-2-phenyl-4-pyrimidinyl]thio]phenyl]- (CA INDEX NAME)

- RN 404829-36-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-phenyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-37-4 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl- (CA INDEX NAME)

RN 404829-38-5 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazol-3-y1]-6-methy1-2-phenyl-(CA INDEX NAME)

RN 404829-39-6 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-40-9 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-43-2 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-44-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-phenyl-N-(5-phenyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

- RN 404829-45-4 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-y1)-2-(4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-46-5 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 404829-47-6 HCAPLUS

CN 4-Pyrimidinamine, 6-(methoxymethyl)-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl-(CA INDEX NAME)

RN 404829-48-7 HCAPLUS

CN 4-Pyrimidinamine, 5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-49-8 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-50-1 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

RN 404829-51-2 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-chloropheny1)-6-ethyl-N-(5-methyl-1H-pyrazol-3-y1)(CA INDEX NAME)

RN 404829-52-3 HCAPLUS

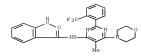
CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

RN 404829-53-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(methoxymethyl)-2-phenyl-4-pyrimidinyl]- (CA INDEX NAME)

RN 404829-79-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5-methyl-6-(4-morpholinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD

(10 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 18 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2002:220583 HCAPLUS Full-text

DOCUMENT NUMBER: 136:247583

TITLE: Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes,

and Alzheimer's disease

INVENTOR(S): Davies, Robert; Bebbington, David; Knegtel, Ronald; Wannamaker, Marion; Li, Pan; Forester, Cornelia;

Pierce, Albert; Kay, David

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 373 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

	PATENT NO.								APPLICATION NO.									
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							DK,											
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 136:247583

ED Entered STN: 22 Mar 2002

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AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; 21 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with the

intervening atoms form an (un)saturated fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring containing 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)20, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliphatic, (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliphatic), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliphatic), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliphatic group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepared as protein kinase inhibitors, especially as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (pyrimidinyl)pyrazolamines and indazolamines I (wherein Z1 and Z2 = N; Z3 = CRx; Z4 = CRv; G = Ring C]. Examples include data for approx. 300 invention compds. prepared by a variety of synthetic methods and bioassay results for the inhibition of GSK-83, Aurora-2, ERK, and Src. For instance, the N-(4pyrimidinyl)-3-pyrazolamine II was prepared and exhibited Ki values of < 0.1  $\mu\text{M}$  for glycogen synthetase kinase 3 $\beta$  (GSK-3 $\beta$ ) and 0.1-1.0  $\mu\text{M}$  for Aurora-2. ICM C07D403-12 ICS C07D401-14; A61K031-506; A61K031-4155; A61P035-00; C07D403-14; C07D405-14; C07D409-14; C07D471-04; C07D487-04; C07D401-12; C07D493-04; C07D498-04; C07D513-04 28-8 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1 607-68-1P, 2,4-Dichloroquinazoline 41339-17-7P, 5-Nitro-1H-indazol-3-vlamine 61272-71-7P, 5-Bromo-1H-indazol-3-vlamine 61272-72-8P, 5-Fluoro-1H-indazol-3-ylamine 404826-17-1P, 2-(2-Trifluoromethylphenyl)pyrido[2,3-d][1,3]oxazin-4-one 404826-18-2P, 2-(2-Trifluoromethylbenzovlamino)nicotinamide 404826-19-3P. 4-Chloro-2-(3,5-dichlorophenvl)quinazoline 404826-26-2P, [4-(4-Methylpiperidin-1-y1)pyrimidin-2-y1](5-methyl-2H-pyrazol-3-y1)amine 404827-60-7P, 7-Fluoro-1H-indazol-3-vlamine 404827-65-2P, 5,7-Difluoro-1H-indazol-3-ylamine 404827-75-4P, 6-Fluoro-1H-indazol-3-vlamine 404827-76-5P, 7-Fluoro-6-trifluoromethyl-1H-indazol-3-ylamine 404827-77-6P, 6-Bromo-1H-indazol-3-vlamine 404827-78-7P, 4-Fluoro-1H-indazol-3-vlamine 404827-79-8P, 4-Pyrrol-1-v1-1H-indazol-3-vlamine 404827-80-1P, 4-Chloro-5,6-dimethyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-81-2P, 4-Chloro-2-(2-chlorophenyl)-5,6-dimethylpyrimidine 404827-82-3P, 4-Chloro-6-methyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2trifluoromethylphenyl)pyrimidine 404827-84-59, 4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-85-6P, 4-Chloro-2-(2, 4-dichlorophenyl)-5,6-dimethylpyrimidine 404827-86-7P, 4-Chloro-6-(2-chlorophenv1)-2-(2-404827-87-8P, trifluoromethylphenyl)pyrimidine 4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine 404827-88-9P, 4-Chloro-6-pyridin-2-v1-2-(2trifluoromethylphenyl)pyrimidine 404827-89-0P, 6-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3d]pyrimidine 404827-90-3P, 7-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[3,4-d]pyrimidine 404827-91-4P, 4-Chloro-2-(4-fluoro-2-trifluoromethylphenyl)quinazoline 404827-92-5P. 4-Chloro-2-(2-chloro-5-trifluoromethylphenyl)quinazoline 404827-93-6P, 4-Chloro-2-(2-chloro-4-nitrophenyl)guinazoline 404827-94-7P, 4-Chloro-2-(2-trifluoromethylphenyl)quinazoline 404827-95-8P, 4-Chloro-2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidine

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hexahydrocyclooctapyrimidine 404827-98-1P,
4-Chloro-8-methoxy-2-(2-trifluoromethylphenyl)quinazoline
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6-Methyl-2-(2-trifluoromethylphenyl)-3H-pyrimidin-4-one
404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-
pyrimidin-4-one
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2-(2-Chloro-5-trifluoromethylphenyl)-3H-quinazolin-4-one
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2-(5-Fluoro-2-trifluoromethylphenyl)-3H-quinazolin-4-one
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(2-Chloroquinazolin-4-yl) (5-methyl-1H-pyrazol-3-yl) amine
404829-31-3P, (6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-
pyrazol-3-yl)amine
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
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(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
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tetrahydroguinazolin-4-vllamine 404826-36-4P,
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(1H-Indazol-3-yl)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine
404826-47-7P, (1H-Indazo1-3-v1)[6-phenv1-2-(2-
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(1H-Indazol-3-vl) [6-(pyridin-4-vl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
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[6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-y1)amine 404826-51-3P.
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
yl)amine 404826-52-4P,
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
indazol-3-yl)amine 404826-53-5P,
[2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](1H-indazo1-3-y1)amine
404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
yl](7-fluoro-1H-indazol-3-yl)amine
                                   404826-55-7P,
(5,7-Difluoro-1H-indazol-3-v1) (5,6-Dimethyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine
                                            404826-56-8F.
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
          404826-57-99,
yl)amine
[2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](7-fluoro-1H-indazol-3-
vl)amine
          404826-58-0P,
[2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](5-fluoro-1H-indazol-3-
         404826-59-1P,
vl)amine
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-60-4P, (5-Methyl-2H-pyrazol-3-yl)[2-(2-methylphenyl)quinazolin-4-
          404826-61-5P, [2-(2,4-Difluorophenyl)quinazolin-4-yl](5-methyl-
vl]amine
2H-pyrazol-3-vl)amine
                      404826-62-6P.
[2-(2,5-Dimethoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404826-63-7P, [2-(2-Chlorophenyl)guinazolin-4-v1](5-methyl-2H-pyrazol-3-
          404826-64-8P, [2-(2-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-
vl)amine
                    404826-65-9P,
pvrazol-3-vl)amine
[2-(2,6-Dimethylphenyl)quinazolin-4-v1](5-methyl-2H-pyrazol-3-v1)amine
404826-66-0P, [2-(2-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404826-67-1P, [2-(2,3-Dimethylphenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404826-68-2P,
(5-Methyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)guinazolin-4-
vl]amine
         404826-69-3P, [2-(2-Ethylphenyl)quinazolin-4-yl](5-Methyl-2H-
pvrazol-3-vl)amine 404826-70-6P,
(2-Biphenyl-2-ylquinazolin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404826-71-7P, [2-(2-Hydroxyphenyl)quinazolin-4-yl](5-Methyl-2H-pyrazol-3-
vl)amine
          404826-72-8P, [2-(2-Ethoxyphenyl)quinazolin-4-yl](5-Methyl-2H-
pyrazol-3-yl)amine
                    404826-73-9P,
[5-(Thiophen-2-v1)-2H-pyrazol-3-v1][2-(2-trifluoromethylphenyl)guinazolin-
           404826-74-0P, [4-(Thiophen-2-yl)-2H-pyrazol-3-yl][2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                            404826-75-1P,
(4-Phenyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine
           404826-76-2P, (5-tert-Butvl-2H-pvrazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-77-3P,
(5-Phenyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
         404826-78-4P, (4,5-Diphenyl-2H-pyrazol-3-yl)[2-(2-
vl]amine
trifluoromethylphenyl)quinazolin-4-yllamine
                                            404826-79-5P.
(4-Carbamov1-2H-pvrazo1-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-80-8P, (2H-Pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)guinazolin-4-yllamine
                                             404826-81-9P,
(5-Hydroxy-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
           404826-82-0P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(2-
yl]amine
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-83-1P,
(5-Methoxymethyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
yl]amine 404826-84-2P, (1H-Indazo1-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-85-3P,
(4-Chloro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-
yl]amine
          404826-86-4P, (5-Fluoro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine 404826-87-5P,
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
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vllamine 404826-88-6P, (5-Methvl-1H-indazol-3-vl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-89-7P,
[2-(2,6-Dichlorophenyl)quinazolin-4-vl](5-fluoro-1H-indazol-3-vl)amine
404826-90-0P, [2-(2-Chlorophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine
404826-91-1P, (5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-92-2P,
(4-Trifluoromethyl-1H-indazol-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-
4-v1]amine
           404826-93-3P, [2-(2,6-Dichlorophenyl)quinazolin-4-yl](1H-
indazo1-3-v1)amine
                    404826-94-4P.
(1H-Indazol-3-v1) [2-(2-methylphenyl)quinazolin-4-v1]amine
(7-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-
            404826-96-6P, (6-Trifluoromethyl-1H-indazol-3-yl) |2-(2-
                                            404826-98-8P.
trifluoromethylphenyl)quinazolin-4-yl]amine
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-99-9P, (4-Pyrrol-1-yl-1H-indazol-3-yl) [2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine
                                             404827-00-5P,
(5-Amino-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl) quinazolin-4-v1]amine
404827-01-6P, [2-(2-Chlorophenyl)quinazolin-4-yl](7-fluoro-1H-indazol-3-
v1) amine 404827-02-7P, [2-(2-Chlorophenv1) quinazolin-4-v1] (5-fluoro-1H-
indazo1-3-y1)amine 404827-03-8P,
[2-(2-Chlorophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-04-9P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-trifluoromethyl-1H-
indazol-3-vl)amine
                    404827-05-0P.
[2-(2-Cyanophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine
                                                          404827-07-2P,
(6-Chloro-1H-indazol-3-vl) |2-(2-trifluoromethylphenyl)quinazolin-4-
          404827-08-3P, (7-Fluoro-6-trifluoromethyl-1H-indazol-3-yl)[2-(2-
vl]amine
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-09-4P.
(6-Bromo-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)quinazolin-4-v1]amine
404827-10-7P, [2-(2,4-Bis-trifluoromethylphenyl)quinazolin-4-yl](5,7-
difluoro-1H-indazol-3-vl)amine 404827-11-8P,
(5,7-Difluoro-1H-indazol-3-y1)[2-(4-fluoro-2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                            404827-12-9P.
[2-(2-Bromophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-13-0P, (5,7-Difluoro-1H-indazol-3-yl)[2-(5-fluoro-2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-14-1P,
[2-(2,4-Dichlorophenyl)quinazolin-4-yl](5,7-Difluoro-1H-indazol-3-yl)amine
404827-15-2P, [2-(2-Chloro-5-trifluoromethylphenyl)quinazolin-4-yl] (5,7-
Difluoro-1H-indazol-3-yl)amine 404827-16-3P,
(4-Fluoro-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404827-18-5P 404827-20-9P,
yl]amine
(5-Fluoro-1H-indazol-3-v1)[8-methoxv-2-(2-trifluoromethylphenyl)quinazolin-
4-yl]amine trifluoroacetate 404827-21-0P
                                           404827-23-2P,
(5,7-Difluoro-1H-indazol-3-vl)[8-methoxv-2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine trifluoroacetate
404827-24-3P, [2-(2-Chloropyridin-3-vl)quinazolin-4-vl](5,7-Difluoro-1H-
indazol-3-vl)amine 404827-26-5P,
[2-(4-Amino-2-chlorophenyl)quinazolin-4-yl](5,7-Difluoro-1H-indazol-3-
yl)amine 404827-27-6P, (4,5,6,7-Tetrahydro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404827-28-7P,
(1H-Pvrazolo[4,3-b]pvridin-3-v1)[2-(2-trifluoromethylphenyl)guinazolin-4-
          404827-29-8P, (1H-Pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-30-1P.
(6-Methyl-1H-pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
trifluoromethylphenyl)guinazolin-4-vllamine
                                             404827-31-2P.
(6-0xo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-32-3P,
[6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-
3-v1)amine 404827-33-4P.
(5-Furan-2-v1-2H-pvrazo1-3-v1)[6-methv1-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-yl]amine 404827-34-5P,
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[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404827-35-6P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-
methyl-2H-pyrazol-3-yl)amine 404827-36-7P 404827-37-8P,
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-
         404827-38-9P, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-
vllamine
trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-yl]amine 404827-40-3P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate)
                      404827-41-4P,
(5-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahvdrocvclooctapvrimidin-4-vllamine
                                        404827-42-5P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-
indazol-3-vl)amine
                    404827-43-6P.
(1H-Indazol-3-v1)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine
                               404827-44-7P.
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-vllamine 404827-45-8P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine 404827-46-9P,
[2-(2-Chlorophenvl)-6,7-dihvdro-5H-cvclopentapvrimidin-4-vl](1H-indazol-3-
          404827-47-0P, [2-(2-Chlorophenyl)-6,7-dihydro-5H-
vl)amine
cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine 404827-48-1P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-
1H-indazol-3-vl)amine
                      404827-49-2P.
(1H-Indazol-3-yl) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vllamine
                                        404827-50-5P.
(7-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vllamine
                                        404827-51-6P.
(5,7-Difluoro-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine 404827-52-7p,
[6-Cvclohexv1-2-(2-trifluoromethylphenyl)pyrimidin-4-v1](1H-indazol-3-
yl)amine 404827-53-8P,
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-yl)amine 404827-54-9P, (6-Fluoro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-55-0P.
3-[[2-(2-Trifluoromethylphenyl)quinazolin-4-yl]amino]-1H-indazole-5-
carboxylic acid methyl ester 404827-56-1P,
(5-Methyl-2H-pyrazol-3-yl)[2-(2-naphthyl-1-yl)quinazolin-4-yl]amine
404827-58-3P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-y1](7-fluoro-1H-
indazol-3-vl)amine bis(trifluoroacetate) 404827-62-9P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                                404827-64-1P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate) 404827-67-4P.
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate) 404827-70-9P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](7-fluoro-1H-indazol-3-
v1) amine bis(trifluoroacetate) 404827-72-1P.
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate) 404827-74-3P,
[2-(2-Chlorophenvl)pvrido[3,4-d]pvrimidin-4-vl](5,7-difluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate)
                               404828-07-5P,
(1H-Indazol-3-v1)(2-phenylquinazolin-4-v1)amine
                                                404828-08-6P.
(5-Methyl-2H-pyrazol-3-yl) (2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
          404828-09-7P, (5-Methyl-2H-pyrazol-3-yl)(2-phenyl-6,7,8,9-
vl)amine
tetrahydro-5H-cycloheptapyrimidin-4-yl)amine
                                             404828-10-0P,
(5-Methyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)-amine
404828-11-1P, (7-Chloro-2-pyridin-4-ylquinazolin-4-yl) (5-methyl-2H-pyrazol-
3-v1)amine
           404828-12-2P, (6-Chloro-2-pyridin-4-ylquinazolin-4-yl) (5-
methyl-2H-pyrazol-3-yl)amine 404828-13-3P,
(2-Cyclohexylquinazolin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
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404828-14-4P, (5-Methyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-15-5P, [2-(4-Iodophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
vl) amine 404828-16-6P, [2-(4-Chlorophenyl) quinazolin-4-vl] (5-methyl-2H-
pyrazol-3-yl)amine 404828-17-7P,
[2-(3,5-Dichlorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-18-8P, [2-(4-Cyanophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-19-9P, [2-(3-Iodophenyl)quinazolin-4-yl](5-methyl-2H-
vl)amine
pvrazo1-3-v1)amine
                    404828-20-2P,
[2-(4-Ethylsulfanylphenyl)guinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-21-3P, (5-Cvclopropv1-2H-pvrazol-3-v1)(2-phenylquinazolin-4-
vl)amine
           404828-22-4P, [2-(4-tert-Butylphenyl)quinazolin-4-yl](5-methyl-
                      404828-23-5P,
2H-pyrazol-3-vl)amine
[2-(4-Chlorophenyl)quinazolin-4-yl](5-cyclopropyl-2H-pyrazol-3-yl)amine
404828-24-6P, (2-Benzo[1,3]dioxol-5-ylquinazolin-4-yl)(5-methyl-2H-pyrazol-
3-v1) amine
            404828-25-7P, [2-(4-Dimethylaminophenyl)guinazolin-4-yl](5-
methv1-2H-pvrazol-3-v1)amine
                             404828-26-8P.
[2-(3-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-27-9P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-
dichlorophenvl)quinazolin-4-vllamine 404828-28-0P,
[2-(3-Ethynylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-29-1P, [2-(3-Methylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine
          404828-31-5P, [2-(3,5-Difluorophenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-vl)amine
                      404828-32-6P,
[2-(3-Chloro-4-fluorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-34-8P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-
vl)amine
trifluoromethylphenyl)quinazolin-4-yl]amine 404828-35-9P,
[2-(3-Cyanophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-36-0P, [2-(3-Isopropylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-37-1P, (5-Methyl-2H-pyrazol-3-yl)(2-pyridin-3-
vlguinazolin-4-vl)amine 404828-38-2P,
[2-(3-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-39-3P, [2-(3,5-Bis(trifluoromethyl)phenyl)guinazolin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404828-40-6P,
[2-(3-Hydroxymethylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-41-7P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-phenoxyphenyl)quinazolin-4-
          404828-42-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3-
phenoxyphenv1)guinazolin-4-v1]amine 404828-43-9P 404828-44-0P,
(2-Phenylquinazolin-4-yl) (2H-pyrazol-3-yl) amine
                                                404828-45-1P.
(2H-Pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)amine 404828-46-2P,
                                                          404828-47-3P,
(5-Ethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
(2-Phenylquinazolin-4-v1)(5-propyl-2H-pyrazol-3-v1)amine
                                                          404828-48-4P,
(5-Isopropyl-2H-pyrazol-3-yl) (2-phenylquinazolin-4-yl) amine
404828-49-5P, (5-tert-Butvl-2H-pyrazol-3-vl)(2-phenylquinazolin-4-vl)amine
404828-50-8P, (5-tert-Butyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-
yl)amine 404828-51-9P, (5-Cyclopentyl-2H-pyrazol-3-vl)(2-
phenylquinazolin-4-vl)amine
                            404828-52-0P,
(5-Phenyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-53-1P,
(5-Carboxy-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-55-3P,
(5-Hydroxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-56-4P, (5-Methoxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
          404828-57-5P, [5-(3-Hydroxypropyl)-2H-pyrazol-3-yl](2-
phenylquinazolin-4-vl)amine
                             404828-59-7P.
[5-(3-Methoxypropy1)-2H-pyrazol-3-y1](2-phenylquinazolin-4-y1)amine
404828-60-0P, [5-(3-Aminopropyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
vl)amine
          404828-62-2P, (5-Isopropy1carbamoy1-2H-pyrazo1-3-y1)(2-
phenylquinazolin-4-y1)amine
                             404828-63-3P,
(5-Allylcarbamov1-2H-pyrazol-3-v1)(2-phenylquinazolin-4-v1)amine
404828-64-4P, [5-(2-Methoxyethylcarbamoy1)-2H-pyrazol-3-y1](2-
phenylguinazolin-4-vl)amine 404828-65-5P,
(5-Benzylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
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404828-66-6P, (5-Cvclohexvlcarbamovl-2H-pvrazol-3-vl)(2-phenvlguinazolin-4-
    y1) amine 404828-67-7P, (5-Diethylcarbamoyl-2H-pyrazol-3-y1) (2-
    phenylquinazolin-4-vl)amine 404828-68-8P,
    [5-(Benzylmethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
    404828-69-9P, (2-Phenylquinazolin-4-yl)(5-propylcarbamoyl-2H-pyrazol-3-
              404828-70-2P, [5-(Ethylisopropylcarbamoy1)-2H-pyrazol-3-y1](2-
                                 404828-71-3P.
    phenylquinazolin-4-yl)amine
    (5-Cyclopropylcarbamoy1-2H-pyrazo1-3-y1)(2-phenylquinazolin-4-y1)amine
    404828-72-4P, (5-Isobutylcarbamov1-2H-pyrazo1-3-v1)(2-phenylguinazo1in-4-
    v1) amine 404828-73-5P, [5-((3S)-3-Methoxymethylpyrrolidine-1-carbonyl)-
                                                    404828-74-6P,
    2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
    (2-Phenylquinazolin-4-vl)(5-m-tolylcarbamovl-2H-pyrazol-3-vl)amine
    404828-75-7P, (2-Phenylquinazolin-4-yl)(5-p-tolylcarbamoyl-2H-pyrazol-3-
               404828-76-8P, (5-Methylcarbamoyl-2H-pyrazol-3-v1)(2-
    vl)amine
    phenylquinazolin-4-yl)amine
                                 404828-77-9P,
    [5-(Morpholine-4-carbonyl)-2H-pyrazol-3-yl](2-phenylguinazolin-4-yl)amine
    404828-78-0P, [5-(1-Methylpiperazine-4-carbonyl)-2H-pyrazol-3-yl](2-
    phenylquinazolin-4-yl)amine 404828-79-1P,
    [5-(2-Hydroxyethylcarbamov1)-2H-pyrazo1-3-v1](2-phenylquinazo1in-4-
    vl)amine
              404828-80-4P, (5-Carbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-
                404828-82-6P, (4-Bromo-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
    4-vl)amine
    yl)amine 404828-83-7P, (4-Bromo-5-methyl-2H-pyrazol-3-yl)(2-
    phenylguinazolin-4-vl)amine
                                  404828-84-8P.
    (4-Cyano-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
                                                             404828-85-9P,
    (5-Methyl-2H-pyrazol-3-yl) (2-morpholin-4-ylguinazolin-4-yl) amine
    404828-86-0P, (5-Methyl-2H-pyrazol-3-yl)(2-piperazin-1-ylquinazolin-4-
    vl)amine
              404828-87-1P, [2-(4-Methylpiperidin-1-yl)quinazolin-4-yl](5-
    methv1-2H-pyrazo1-3-v1)amine 404828-88-2P
, [2-(4-Methylpiperazin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
    404828-89-3P, (5-Methyl-2H-pyrazol-3-yl)(2-piperidin-1-ylquinazolin-4-
    yl)amine 404828-90-6P, [2-(Azepan-1-yl)quinazolin-4-yl](5-methyl-2H-
    pvrazol-3-vl)amine 404828-91-7P.
    [2-[4-(2-Hydroxyethyl)piperidin-1-yl]quinazolin-4-yl](5-methyl-2H-pyrazol-
                404828-92-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-
    methylpiperidin-1-yl)quinazolin-4-yl]amine 404828-94-0P,
    [2-(1,4-Dioxa-8-azaspiro[4.5]dec-8-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-
               404828-95-1P, [2-(4-Cyclopentylaminopiperidin-1-yl)quinazolin-
    4-y1] (5-methyl-2H-pyrazol-3-y1)amine
                                          404828-96-2P,
    [2-(4-Hydroxypiperidin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
              404828-97-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-hydroxy-4-
    phenylpiperidin-1-vl)quinazolin-4-vl]amine 404828-98-4P,
    (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(1,3-dihydroisoindol-2-yl)quinazolin-4-
               404828-99-5P, [2-(Azepan-1-v1)guinazolin-4-v1](5-cvclopropv1-2H-
    pyrazol-3-vl)amine 404829-00-1P,
    (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-dihydro-1H-isoquinolin-2-
    vl)quinazolin-4-vl]amine 404829-01-2P,
    (5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(2,3-dihydroindo1-1-y1)quinazolin-4-
    yl]amine 404829-02-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-
    hydroxymethylpiperidin-1-yl)quinazolin-4-yl]amine 404829-03-4P,
    (5-Cvclopropvl-2H-pvrazol-3-vl)[2-(3,4-dihvdro-2H-quinolin-1-vl)quinazolin-
                404829-05-6P, 5-(Piperidine-1-carbonyl)-2H-pyrazol-3-yl-[2-
    (piperidine-1-vl)quinazolin-4-vl]amine
                                            404829-06-7P.
    (5-Hydroxymethyl-2H-pyrazol-3-yl)[2-(piperidin-1-yl)quinazolin-4-yl]amine
    404829-07-8P, (5-Carbamoyl-2H-pyrazol-3-yl)[2-(piperidin-1-yl)quinazolin-4-
    yl]amine 404829-08-9P, (5-Carbamoyl-2H-pyrazol-3-yl)[2-(4-
    methylpiperidin-1-y1)quinazolin-4-y1]amine 404829-09-0P,
    (5,7-Difluoro-1H-indazol-3-v1)(2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
    yl)amine 404829-10-3P, (2-Phenyl-5,6,7,8-tetrahydroquinazolin-4-yl)(5-
    trifluoromethyl-1H-indazol-3-vl)amine 404829-11-4P,
    (7-Fluoro-1H-indazol-3-yl)(2-phenylquinazolin-4-yl)amine 404829-12-5P,
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(5-Fluoro-1H-indazol-3-vl)(2-phenylquinazolin-4-vl)amine 404829-13-6P,
(5,7-Difluoro-1H-indazol-3-yl)(2-phenylquinazolin-4-yl)amine
404829-14-7P, (1H-Indazol-3-vl)[2-(3-trifluoromethylphenyl)guinazolin-4-
yl]amine
          404829-15-8P, (2-Phenylquinazolin-4-yl)(1H-pyrazolo[4,3-
b)pvridin-3-v1)amine 404829-16-9P.
[5-(3-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
                            404829-17-0P.
phenylguinazolin-4-vl)amine
(6-0xo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-(2-
phenylguinazolin-4-vl)amine 404829-18-1P.
[5-(4-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylquinazolin-4-yl)amine 404829-19-2P,
[5-(2,4-Dichlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-
vl](2-phenylquinazolin-4-yl)amine
                                  404829-21-6P.
[6-Oxo-5-(3-trifluoromethylphenyl)-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-
3-v1](2-phenylquinazolin-4-v1)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
   analogs as protein kinase inhibitors for treatment of cancer,
   diabetes, and Alzheimer's disease)
404829-22-7P, [6-0xo-5-(4-Phenoxyphenyl)-5,6-dihydro-1H-pyrazolo[4,3-
clpvridazin-3-vll(2-phenylguinazolin-4-vl)amine
                                                404829-23-8P,
[5-(4-Chlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylquinazolin-4-vl)amine 404829-24-9P,
(2-Imidazol-1-ylquinazolin-4-yl)(1H-indazol-3-yl)amine 404829-25-0P,
(1H-Indazol-3-yl) [2-(2-methylimidazol-1-yl)quinazolin-4-yl]amine
404829-26-1P, (1H-Indazol-3-yl)(2-piperidin-1-ylquinazolin-4-yl)amine
404829-27-2P, (1H-Indazol-3-yl)[2-(octahydroquinolin-1-yl)quinazolin-4-
          404829-28-3P, (1H-Indazol-3-v1)[2-(2,6-dimethylmorpholin-4-
yl)quinazolin-4-yl]amine 404829-29-4P,
(5-Methyl-2H-pyrazol-3-yl)(2-phenylpyrimidin-4-yl)amine
404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
vll(5-methyl-2H-pyrazol-3-yl)amine 404829-32-9P,
[2-(4-Methylpiperidin-1-yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-33-0P, [2-(4-Methylpiperidin-1-yl)-5-nitropyrimidin-4-yl](5-methyl-
2H-pvrazol-3-vl)amine 404829-34-1P,
[5-Amino-2-(4-Methylpiperidin-1-yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
           404829-35-2P, [5-Amino-6-methyl-2-(4-methylpiperidin-1-
                                                   404829-36-3P
yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
, [6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-
           404829-37-4P,
[2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-2-yl-2H-pyrazol-3-
yl)amine 404829-38-5P,
[5-(Furan-2-y1)-2H-pyrazol-3-y1](6-methyl-2-phenylpyrimidin-4-y1)amine
404829-39-6P 404829-40-9P,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yllamine 404829-41-0P,
[2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-methylpyrimidin-4-yl](5-furan-2-yl-
2H-pvrazol-3-vl)amine 404829-42-1P,
[2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-ethylpyrimidin-4-yl](5-methyl-2H-
pyrazol-3-yl)amine 404829-43-2P,
(6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2H-
pyrazol-3-yl)amine
                     404829-45-4P,
[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
v1) amine 404829-46-5P,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-methy1pheny1)-pyrimidin-4-
vl]amine 404829-47-6P,
(6-Methoxymethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
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404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazo1-3-y1)amine 404829-49-8P,
(6-Methyl-2-phenylpyrimidin-4-vl)(5-methyl-2H-pyrazol-3-vl)amine
404829-50-1P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-
2H-pyrazol-3-v1)amine
                      404829-51-2P,
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
tolylpyrimidin-4-yl)amine 404829-53-4P,
(1H-Indazol-3-v1) (6-methoxymethyl-2-phenylpyrimidin-4-v1) amine
404829-54-5P, (5-Methyl-2H-pyrazol-3-v1)-(2-pyridin-4-vlthieno[3,2-
d]pyrimidin-4-yl)amine
                        404829-55-6P,
(5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[3,4-d]pyrimidin-4-yl)amine
404829-56-7P, (5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[2,3-d]pyrimidin-4-
          404829-57-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)-(2-
phenylpyrido[3,4-d]pyrimidin-4-yl)amine 404829-60-3P,
(5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-methylpiperidin-1-yl)pyrrolo[3,2-
d]pyrimidin-4-y1]amine 404829-62-5P,
(5-Fluoro-1H-indazol-3-yl)-(2-phenyl-5,6,7,8-tetrahydropyrido[4,3-
d]pyrimidin-4-yl)amine 404829-63-6P,
(1H-Indazol-3-y1)[3-(2-trifluoromethylphenyl)isoquinoline-1-y1]amine
404829-65-8P, (5,7-Difluoro-1H-indazol-3-yl)[3-(2-
trifluoromethylphenyl)isoquinolin-1-yl]amine
                                             404829-66-9P,
(1H-Indazol-3-v1)(2-phenylquinolin-4-v1)amine 404829-67-0P.
(2-Phenylquinolin-4-yl) (1H-pyrazolo[4,3-b]pyridin-3-yl) amine
404829-68-1P, (1H-Indazol-3-vl)[2-(2-trifluoromethylphenyl)guinolin-4-
           404829-69-2P, (5,7-Difluoro-1H-indazol-3-vl)[2-(2-
vl]amine
trifluoromethylphenyl)quinolin-4-yl]amine 404829-70-5P,
[2-(2-Trifluoromethylphenyl)quinolin-4-yl](1H-pyrazolo[4,3-b]pyridin-3-
vl)amine
          404829-71-6P, (2-Phenylquinazolin-4-yl)(2H-1,2,4-triazol-3-
vl)amine
          404829-72-7P, (5-Methvl-2H-1,2,4-triazol-3-vl)(2-
phenylquinazolin-4-yl)amine 404829-73-8P,
(2H-1,2,4-Triazol-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-v1]amine
404829-74-9P, (5-Methyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)guinazolin-4-yllamine
(5-Methylsulfanyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                            404829-76-1P.
(1H-[1,2,4]Triazol-3-v1)[3-(2-trifluoromethylphenyl)isoquinolin-1-v1]amine
404829-77-2P, (2-Phenylquinolin-4-yl)(1H-1,2,4-triazol-3-yl)amine
404829-78-3P, (1H-[1,2,4]Triazol-3-vl)[2-(2-trifluoromethylphenyl)guinolin-
            404829-79-4P,
4-yl]amine
(1H-Indazol-3-v1) [5-methv1-6-morpholin-4-v1-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-80-7P
                                                           404829-81-8P
404845-75-6P
              404872-66-8P
                             404872-67-9P
                                            404872-68-0P
404872-69-1P
              404872-70-4P
                             404872-71-5P
                                            404872-72-6P
                                                           404872-73-7P
404872-74-8P 404872-75-9P
                             404872-76-0P
                                           404872-77-1P
                                                           404872-78-2P
404872-79-3P
              404872-80-6P
                              404872-81-7P
               404872-83-9P
404872-82-8P
                              404872-84-0P
404872-85-1P
               404872-86-2P
                              404872-87-3P
404872-88-4P
              404872-89-5P
                             404872-90-8P
                                            404872-91-9P
                                                           404872-92-0P
404872-93-1P
              404872-94-2P
                                            404872-96-4P
                                                           404872-97-5P
                             404872-95-3P
404872-98-6P
              404872-99-7P
                             404873-00-3P
                                            404873-01-4P
                                                           404873-02-5P
404873-03-6P 404873-04-7P
                             404873-05-8P
                                            404873-06-9P
404873-07-0P
              404873-08-1P
                             404873-09-2P
404873-10-5P
               404873-11-6P
                              404873-12-7P
404873-13-8P
404873-16-1P
               404873-14-9P
                              404873-15-0P
               404873-17-2P
                              404873-18-3P
404873-19-4P
               404873-20-7P
                              404873-21-8P
404873-22-99
               404873-23-0P
                              404873-24-1P
404873-25-2P
               404873-26-3P
                              404873-27-49
404873-28-5P
               404873-29-6P
                              404873-30-9P
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404873-31-0P 404873-34-3P	404873-32-1P 404873-35-4P	404873-33-2P 404873-36-5P		
404873-37-6P	404873-38-7P	404873-39-8P		
404873-40-1P	404873-41-2P	404873-42-3P	404873-43-4P	404873-44-5P
404873-45-6P	404873-46-7P	404873-47-8P	404873-48-9P	404873-49-0P
404873-50-3P	404873-51-4P	404873-52-5P	404873-53-6P	404873-54-7P
404873-55-8P	404873-56-9P	404873-57-0P	404873-58-1P	404873-59-2P
404873-60-5P	404873-61-6P	404873-62-7P	404873-63-8P	404873-64-9P
404873-65-0P	404873-66-1P	404873-67-2P	404873-68-3P	404873-69-4P
404873-70-7P	404873-71-8P	404873-72-9P	404873-73-0P	404873-74-1P
404873-75-2P	404873-76-3P	404873-77-4P	404873-78-5P	404873-79-6P
RL: PAC (Pharm	acological acti	.vity); SPN (Syn	thetic preparat	ion);
THU (Therapeut	ic use); BIOL (	Biological stud	v); PREP	

(Preparation); USES (Uses)

(protein kinase inhibitor; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer,

diabetes, and Alzheimer's disease)

404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2-

trifluoromethylphenyl)pyrimidine 404827-84-5P,

4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine

404827-86-7P, 4-Chloro-6-(2-chloropheny1)-2-(2-

404827-87-89, trifluoromethylphenyl)pyrimidine

4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine

404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-

pvrimidin-4-one 404829-31-89,

(6-Chloro-2-phenylpyrimidin-4-v1) (5-methyl-2H-pyrazol-3-v1) amine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

404827-83-4 HCAPLUS RN CN

Pyrimidine, 4-chloro-6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- 404827-84-5 HCAPLUS
- CN Pyrimidine, 4-chloro-6-phenyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404827-86-7 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl](CA INDEX NAME)

- RN 404827-87-8 HCAPLUS

- RN 404828-02-0 HCAPLUS
- CN 4(3H)-Pyrimidinone, 6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-31-8 HCAPLUS
- CN 4-Pyrimidinamine, 6-chloro-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

IT 404826-28-4P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-

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Methyl-2H-pyrazol-3-v1)amine
                              404826-46-6P,
(1H-Indazol-3-yl)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine
404826-47-7P, (1H-Indazo1-3-v1)[6-phenv1-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine
                                            404826-48-8P.
(1H-Indazol-3-yl)[6-(pyridin-4-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
yl]amine
          404826-49-9P,
(1H-Indazol-3-y1)[6-(pyridin-2-y1)-2-(2-trifluoromethylpheny1)pyrimidin-4-
          404826-50-2P,
yl]amine
[6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yll(1H-indazol-
            404826-51-3P,
3-v1) amine
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
          404826-52-4P,
vl)amine
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
indazol-3-yl)amine 404826-53-5P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
yl](7-fluoro-1H-indazol-3-yl)amine 404826-55-7P,
(5,7-Difluoro-1H-indazol-3-yl) [5,6-Dimethyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-56-8P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
          404826-57-92,
vl)amine
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](7-fluoro-1H-indazol-3-
          404826-58-09,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-fluoro-1H-indazol-3-
          404826-59-1P,
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404827-32-3P, [6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-
v1](5-phenv1-2H-pvrazo1-3-v1)amine
                                    404827-33-4P,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-yl]amine
                                             404827-34-5P,
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine
         404827-52-7P,
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
vl)amine
          404827-53-89,
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-v1)amine
            404829-29-4P.
(5-Methyl-2H-pyrazol-3-vl)(2-phenylpyrimidin-4-vl)amine
404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
v1](5-methyl-2H-pyrazol-3-v1)amine
                                   404829-36-3P,
[6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-yl)amine
404829-37-4P, [2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-
                            404829-38-5P,
2-y1-2H-pyrazol-3-y1)amine
[5-(Furan-2-v1)-2H-pyrazol-3-v1](6-methyl-2-phenylpyrimidin-4-v1)amine
404829-39-6P
              404829-40-9P.
(5-Furan-2-y1-2H-pyrazol-3-y1)[6-methy1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-43-22,
(6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl) (5-phenyl-2H-
pyrazol-3-yl)amine
                   404829-45-4P,
[6-Ethvl-2-(4-trifluoromethylphenyl)pyrimidin-4-vl](5-methyl-2H-pyrazol-3-
vl)amine
          404829-46-5P,
(5-Furan-2-yl-2H-pyrazol-3-yl)[6-methyl-2-(4-methylphenyl)-pyrimidin-4-
          404829-47-6P,
yl]amine
(6-Methoxymethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazol-3-yl)amine 404829-49-8P,
(6-Methyl-2-phenylpyrimidin-4-v1) (5-methyl-2H-pyrazol-3-v1) amine
404829-50-1P, [6-Ethy1-2-(4-methy1pheny1)pyrimidin-4-y1](5-methy1-
2H-pyrazo1-3-v1)amine
                      404829-51-29,
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
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404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-tolylpyrimidin-4-yl)amine 404829-53-4P, (1H-Indazol-3-yl)(6-methoxymethyl-2-phenylpyrimidin-4-yl)amine 404323-79-4P, (1H-Indazol-3-yl)[5-methyl-6-morpholin-4-yl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl)amine 404872-68-8P 404872-81-7P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(protein kinase inhibitor; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for <a href="treatment">treatment</a> of cancer, diabetes, and Alzheimer's disease)

RN 404826-28-4 HCAPLUS

CN 4-Pyrimidinamine, 2-(2-chlorophenyl)-5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

- RN 404826-46-6 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-methyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-47-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-phenyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-48-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(4-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-49-9 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-50-2 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-51-3 HCAPLUS
- $\texttt{CN} \qquad \texttt{1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4-} \\$

pyrimidinyl]- (CA INDEX NAME)

- RN 404826-52-4 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5-fluoro- (CA INDEX NAME)

- RN 404826-53-5 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-(CA INDEX NAME)

- RN 404826-54-6 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-7-fluoro- (CA INDEX NAME)

- RN 404826-55-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

RN 404826-56-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

RN 404826-57-9 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-7fluoro- (CA INDEX NAME)

RN 404826-58-0 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5fluoro- (CA INDEX NAME)

RN 404826-59-1 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2,4-dichlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-

(CA INDEX NAME)

- RN 404827-32-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-33-4 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-34-5 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-52-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404827-53-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404829-29-4 HCAPLUS
- CN 4-Pyrimidinamine, N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-30-7 HCAPLUS
- CN Acetamide, N-[4-[[6-[(5-methyl-1H-pyrazol-3-yl)amino]-2-phenyl-4-pyrimidinyl]thio]phenyl]- (CA INDEX NAME)

RN 404829-36-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-phenyl-1H-pyrazol-3-yl)-(CA INDEX NAME)

RN 404829-37-4 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6methyl- (CA INDEX NAME)

RN 404829-38-5 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazol-3-y1]-6-methyl-2-phenyl-(CA INDEX NAME)

RN 404829-39-6 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-40-9 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-43-2 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-44-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-phenyl-N-(5-phenyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

RN 404829-45-4 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-[4-

(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-46-5 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 404829-47-6 HCAPLUS

CN 4-Pyrimidinamine, 6-(methoxymethyl)-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl-(CA INDEX NAME)

RN 404829-48-7 HCAPLUS

CN 4-Pyrimidinamine, 5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-49-8 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-50-1 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)-(CA INDEX NAME)

RN 404829-51-2 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-chloropheny1)-6-ethy1-N-(5-methy1-1H-pyrazol-3-y1)(CA INDEX NAME)

RN 404829-52-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)-(CA INDEX NAME)

RN 404829-53-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(methoxymethyl)-2-phenyl-4-pyrimidinyl]- (CA INDEX NAME)

RN 404829-79-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5-methyl-6-(4-morpholinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404872-66-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[5-chloro-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404872-79-3 HCAPLUS

 $\begin{array}{lll} \hbox{CN} & \hbox{1H-Indazol-3-amine, N-[6-(4-aminocyclohexyl)-5-methyl-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-} & \hbox{(CA INDEX NAME)} \end{array}$ 

RN 404872-80-6 HCAPLUS

CN Acetamide, N-[4-[6-(1H-indazol-3-ylamino)-5-methyl-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]cyclohexyl]- (CA INDEX NAME)

RN 404872-81-7 HCAPLUS

CN Methanesulfonamide, N-[4-[2-(2-chlorophenyl)-6-(1H-indazol-3-ylamino)-5methyl-4-pyrimidinyl]cyclohexyl]- (CA INDEX NAME)

RN 404872-82-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5-methyl-6-(4-morpholinyl)-4pyrimidinyl]- (CA INDEX NAME)

- RN 404872-83-9 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5-methyl-6-(1-piperazinyl)-4-pyrimidinyl]- (CA INDEX NAME)

- RN 404872-84-0 HCAPLUS
- CN Ethanone, 1-[4-[2-(2-chlorophenyl)-6-(1H-indazol-3-ylamino)-5-methyl-4pyrimidinyl]-1-piperazinyl]- (CA INDEX NAME)

- RN 404872-85-1 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[2-(2-chlorophenyl)-6-(1H-indazol-3-ylamino)-5-methyl-4-pyrimidinyl]-, phenylmethyl ester (CA INDEX NAME)

- RN 404872-86-2 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5-methyl-6-[4-(methylsulfonyl)-1-piperazinyl]-4-pyrimidinyl]- (CA INDEX NAME)

- RN 404872-87-3 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5-methyl-6-(4-methyl-1-piperazinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

- RN 404873-06-9 HCAPLUS
- CN 1-Piperidinecarboxylic acid, 2-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-, phenylmethyl ester (CA INDEX NAME)

- RN 404873-07-0 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-[1-(methylsulfonyl)-2-piperidinyl]-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404873-08-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 3-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-4-methyl-, phenylmethyl ester (CA INDEX NAME)

RN 404873-09-2 HCAPLUS

CN Ethanone, 1-[3-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-1-piperazinyl]- (CA INDEX NAME)

RN 404873-10-5 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-piperaziny1)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404873-11-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(1-methyl-2-piperazinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404873-12-7 HCAPLUS

CN Acetamide, N-[2-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]cyclohexyl]- (CA INDEX NAME)

RN 404873-13-8 HCAPLUS

CN Methanesulfonamide, N-[2-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]cyclohexyl]- (CA INDEX NAME)

- RN 404873-14-9 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-aminocyclohexyl)-2-[2-(trifluoromethyl)phenyl]4-pyrimidinyl]- (CA INDEX NAME)

- RN 404873-15-0 HCAPLUS
- CN Carbamic acid, [2-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

- RN 404873-16-1 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-aminoethyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404873-17-2 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(4-piperidiny1)-2-[2-(trifluoromethy1)pheny1]-4pyrimidiny1]- (CA INDEX NAME)

RN 404873-18-3 HCAPLUS

CN Acetamide, N-[2-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]ethyl]- (CA INDEX NAME)

RN 404873-19-4 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-, phenylmethyl ester (CA INDEX NAME)

RN 404873-20-7 HCAPLUS

CN Ethanone, 1-[4-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-1-piperidinyl]- (CA INDEX NAME)

RN 404873-21-8 HCAPLUS

CN Methanesulfonamide, N-[2-[2-(2-chloropheny1)-6-(1H-indazo1-3-ylamino)-4-pyrimidinyl]ethyl]- (CA INDEX NAME)

RN 404873-22-9 HCAPLUS

CN Ethanone, 1-[2-[2-(2-chloropheny1)-6-(1H-indazol-3-ylamino)-4-pyrimidiny1]1-piperidiny1]- (CA INDEX NAME)

RN 404873-23-0 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6-[1-(methylsulfonyl)-2-piperidinyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404873-24-1 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(4-morpholiny1)-2-[2-(trifluoromethy1)pheny1]-4pyrimidiny1]- (CA INDEX NAME)

- RN 404873-25-2 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(1-piperaziny1)-2-[2-(trifluoromethy1)pheny1]-4pyrimidiny1]- (CA INDEX NAME)

- RN 404873-26-3 HCAPLUS
- CN Ethanone, 1-[4-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-1-piperazinyl]- (CA INDEX NAME)

- RN 404873-27-4 HCAPLUS
- CN 1-Piperazinecarboxylic acid, 4-[6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-, phenylmethyl ester (CA INDEX NAME)

- RN 404873-28-5 HCAPLUS
- $\texttt{CN} \qquad \texttt{1H-Indazol-3-amine, N-[6-[4-(methylsulfonyl)-1-piperazinyl]-2-[2-methylsulfonyl)-1-piperazinyl]-2-[2-methylsulfonyl]} \\$

(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404873-29-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(4-methyl-1-piperazinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404873-30-9 HCAPLUS

CN 4-Pyrimidinecarbonitrile, 6-(1H-indazol-3-ylamino)-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404873-31-0 HCAPLUS

CN 4,5-Pyrimidinediamine, N4-1H-indazol-3-yl-N5-methyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404873-32-1 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(1H-imidazol-5-yl)-2-[2-(trifluoromethyl)phenyl]-

4-pyrimidinyl]- (CA INDEX NAME)

- RN 404873-33-2 HCAPLUS
- CN 4,6-Pyrimidinediamine, 2-(2-chlorophenyl)-N4-1H-indazol-3-yl-N6-(phenylmethyl)- (CA INDEX NAME)

- RN 404873-34-3 HCAPLUS
- CN Acetamide, N-[4-[(5,7-difluoro-1H-indazol-3-y1)amino]-2-[2-(trifluoromethyl)phenyl]-5-pyrimidinyl]- (CA INDEX NAME)

- RN 404873-36-5 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-phenoxy-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

CN 4,6-Pyrimidinediamine, 2-(2-chlorophenyl)-N6-(5,7-difluoro-1H-indazol-3-yl)-N4,N4-dimethyl- (CA INDEX NAME)

RN 404873-38-7 HCAPLUS

CN 4-Pyrimidinesulfonamide, 2-(2-chlorophenyl)-6-(1H-indazol-3-ylamino)-5methyl- (CA INDEX NAME)

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 19 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2002:220581 HCAPLUS Full-text

DOCUMENT NUMBER: 136:247581

TITLE: Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes,

and Alzheimer's disease
INVENTOR(S): Golec, Julian M. C.; Ch.

INVENTOR(S): Golec, Julian M. C.; Charrier, Jean-Damien; Knegtel, Ronald; Bebbington, David; Davies, Robert; Li, Pan

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 357 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 136:247581

ED Entered STN: 22 Mar 2002 GI

Title compds, I (wherein G = Ring C or Ring D; Ring C = (un)substituted Ph. AB pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un) substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)saturated fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring containing 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)20, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliphatic, (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliphatic), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliphatic), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliphatic group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepared as protein kinase inhibitors, especially as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover pyrazolamines and indazolamines I [wherein Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N; at least one of Z1 or Z3 = N]. Examples include data for approx. 300 invention compds. prepared by a variety of synthetic methods and bioassav results for the inhibition of GSK-83, Aurora-2, ERK, and Src. For instance, the N-(4-pyrimidinyl)-3-pyrazolamine II was prepared and exhibited Ki values of < 0.1 uM for glycogen synthetase kinase 38 (GSK-38) and 0.1-1.0 uM for Aurora-2.

IC ICM C07D403-12

ICS C07D401-14; C07D409-14; A61K031-497; A61K031-53; A61P035-00

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

IT 607-68-1P, 2,4-Dichloroguinazoline 41339-17-7P,

5-Nitro-1H-indazol-3-ylamine 61272-71-7P, 5-Bromo-1H-indazol-3-ylamine 61272-72-8P, 5-Fluoro-1H-indazol-3-ylamine 404826-17-1P,

2-(2-Trifluoromethylphenyl)pyrido[2,3-d][1,3]oxazin-4-one 404826-18-2P

2-(2-Trifluoromethylbenzoylamino)nicotinamide 404826-19-3P, 4-Chloro-2-(3,5-dichlorophenyl)quinazoline 404826-26-2P,

[4-(4-Methylpiperidin-1-yl)pyrimidin-2-yl](5-methyl-2H-pyrazol-3-yl)amine

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7-Fluoro-6-trifluoromethyl-1H-indazol-3-ylamine 404827-77-6P,

6-Bromo-1H-indazol-3-ylamine 404827-78-7P, 4-Fluoro-1H-indazol-3-ylamine 404827-79-8P, 4-Pyrrol-1-yl-1H-indazol-3-ylamine 404827-80-1P,

4-Chloro-5,6-dimethyl-2-(2-trifluoromethylphenyl)pyrimidine

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4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-85-6P,
4-Chloro-2-(2,4-dichlorophenv1)-5,6-dimethylpyrimidine
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4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine
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4-Chloro-2-(2-chloro-4-nitrophenyl)guinazoline 404827-94-7P,
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4-Chloro-2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
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4-Chloro-8-methoxy-2-(2-trifluoromethylphenyl)quinazoline
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quinazolin-4-one 404828-04-2P, 2-(4-Fluoro-2-trifluoromethylphenyl)-3H-
quinazolin-4-one
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       404828-06-4P, 2-(5-Fluoro-2-trifluoromethylphenyl)-3H-quinazolin-4-
     404828-30-4P, (2-Chloroguinazolin-4-vl)(5-methyl-1H-pyrazol-3-
yl)amine
         404829-31-89,
(6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404829-59-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (intermediate; preparation of heterocyclylpyrazolamines and analogs as
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404826-28-4P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-
Methyl-2H-pyrazol-3-yl)amine 404826-29-5P,
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](1H-
indazol-3-vl)amine
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(5-Fluoro-1H-indazol-3-vl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydropyrido[3,4-d]pyrimidin-4-yl]amine
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fluoro-1H-indazol-3-v1)amine
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[2-(2-Chloropheny1)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-y1](5-
fluoro-1H-indazol-3-vl)amine 404826-33-1P,
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difluoro-1H-indazol-3-yl)amine
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(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
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(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroquinazolin-4-yl]amine 404826-36-4P,
(5,7-Difluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-vllamine 404826-37-5P.
(5-Trifluoromethyl-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8-
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ΙT

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[6-Benzyl-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3-
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(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-5H-
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tetrahydropyrido[4,3-d]pyrimidin-4-yl]amine
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trifluoromethylphenyl)pyrimidin-4-yl]amine
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[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
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vl)amine
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indazol-3-yl)amine 404826-53-5p,
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vl)amine
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[2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](5-fluoro-1H-indazol-3-
          404826-59-1P.
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-60-4P, (5-Methyl-2H-pyrazol-3-yl)[2-(2-methylphenyl)quinazolin-4-
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2H-pyrazol-3-yl)amine 404826-62-6P,
[2-(2,5-Dimethoxyphenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404826-63-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
         404826-64-8P, [2-(2-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-
pyrazol-3-vl)amine 404826-65-9P,
[2-(2,6-Dimethylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404826-66-0P, [2-(2-Acetylphenyl)quinazolin-4-v1](5-methyl-2H-pyrazol-3-
          404826-67-1P, [2-(2,3-Dimethylphenyl)quinazolin-4-yl](5-methyl-
2H-pvrazol-3-vl)amine 404826-68-2P,
(5-Methyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-69-3P, [2-(2-Ethylphenyl)quinazolin-4-yl](5-Methyl-2H-
vllamine
pyrazol-3-yl)amine 404826-70-6P,
(2-Biphenyl-2-vlguinazolin-4-vl) (5-methyl-2H-pyrazol-3-vl)amine
404826-71-7P, [2-(2-Hydroxyphenyl)quinazolin-4-yl](5-Methyl-2H-pyrazol-3-
          404826-72-8P, [2-(2-Ethoxyphenyl)quinazolin-4-yl](5-Methyl-2H-
yl)amine
pvrazol-3-vl)amine 404826-73-9P,
[5-(Thiophen-2-yl)-2H-pyrazol-3-yl][2-(2-trifluoromethylphenyl)quinazolin-
           404826-74-0P, [4-(Thiophen-2-v1)-2H-pvrazol-3-v1][2-(2-
4-vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-75-1P.
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(4-Phenyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)guinazolin-4-
yl]amine 404826-76-2P, (5-tert-Butyl-2H-pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)guinazolin-4-vllamine 404826-77-3P,
(5-Phenyl-2H-pyrazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
         404826-78-4P, (4.5-Diphenvl-2H-pvrazol-3-vl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-79-5P,
(4-Carbamoy1-2H-pyrazo1-3-y1)[2-(2-trifluoromethylpheny1)quinazolin-4-
          404826-80-8P, (2H-Pyrazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine
                                             404826-81-9P.
(5-Hydroxy-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-82-0P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-vllamine
                                             404826-83-1P.
(5-Methoxymethyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-84-2P, (1H-Indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-85-3P,
(4-Chloro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)guinazolin-4-
vllamine
          404826-86-4P, (5-Fluoro-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-87-5P,
(7-Fluoro-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine
          404826-88-6P, (5-Methyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-89-7P,
[2-(2,6-Dichlorophenyl)quinazolin-4-yl](5-fluoro-1H-indazol-3-yl)amine
404826-90-0P, [2-(2-Chlorophenyl)guinazolin-4-yl](1H-indazol-3-yl)amine
404826-91-1P, (5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                            404826-92-2P.
(4-Trifluoromethyl-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl) quinazolin-
4-vllamine
            404826-93-3P, [2-(2,6-Dichlorophenyl)quinazolin-4-yl](1H-
indazol-3-vl)amine
                    404826-94-4P,
(1H-Indazol-3-yl)[2-(2-methylphenyl)quinazolin-4-yl]amine 404826-95-5P,
(7-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)guinazolin-
4-y1]amine 404826-96-6P, (6-Trifluoromethyl-1H-indazol-3-y1)[2-(2-
trifluoromethylphenyl)guinazolin-4-vllamine 404826-98-8P,
(5,7-Difluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-99-9P, (4-Pyrrol-1-yl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-00-5P,
(5-Amino-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404827-01-6P, [2-(2-Chlorophenyl)quinazolin-4-v1](7-fluoro-1H-indazol-3-
          404827-02-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-fluoro-1H-
indazol-3-vl)amine
                    404827-03-8P,
[2-(2-Chlorophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-04-9P, [2-(2-Chlorophenvl)quinazolin-4-vl](5-trifluoromethvl-1H-
indazol-3-yl)amine 404827-05-0P,
[2-(2-Cyanophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine 404827-07-2P,
(6-Chloro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine
         404827-08-3P, (7-Fluoro-6-trifluoromethyl-1H-indazol-3-yl) [2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-09-4P,
(6-Bromo-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)guinazolin-4-v1]amine
404827-10-7P, [2-(2,4-Bis-trifluoromethylphenyl)quinazolin-4-yl](5,7-
difluoro-1H-indazol-3-yl)amine
                               404827-11-8P,
(5,7-Difluoro-1H-indazol-3-v1)[2-(4-fluoro-2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404827-12-9P.
[2-(2-Bromophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-13-0P, (5,7-Difluoro-1H-indazol-3-yl)[2-(5-fluoro-2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404827-14-1P.
[2-(2,4-Dichlorophenyl)quinazolin-4-yl](5,7-Difluoro-1H-indazol-3-yl)amine
404827-15-2P, [2-(2-Chloro-5-trifluoromethylphenyl)quinazolin-4-yl](5,7-
Difluoro-1H-indazol-3-vl)amine 404827-16-3P,
(4-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine 404827-18-5P 404827-20-9P,
(5-Fluoro-1H-indazol-3-yl)[8-methoxy-2-(2-trifluoromethylphenyl)quinazolin-
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4-vllamine trifluoroacetate
                             404827-21-0P 404827-23-2P,
(5,7-Difluoro-1H-indazol-3-y1)[8-methoxy-2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine trifluoroacetate
404827-24-3P, [2-(2-Chloropyridin-3-yl)quinazolin-4-yl](5,7-Difluoro-1H-
indazol-3-vl)amine 404827-26-5P,
[2-(4-Amino-2-chlorophenyl)quinazolin-4-yl](5,7-Difluoro-1H-indazol-3-
          404827-27-6P, (4,5,6,7-Tetrahydro-1H-indazol-3-y1)[2-(2-
trifluoromethylphenyl)guinazolin-4-vl|amine
                                            404827-28-7P,
(1H-Pyrazolo[4,3-b]pyridin-3-y1)[2-(2-trifluoromethylphenyl)guinazolin-4-
vllamine
          404827-29-8P, (1H-Pyrazolo[3,4-b]pyridin-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-30-1P.
(6-Methyl-1H-pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-31-2P.
(6-Oxo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-[2-(2-
                                             404827-32-3P,
trifluoromethylphenyl)quinazolin-4-yl]amine
[6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-
3-yl)amine 404827-33-4P,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-yl|amine
                                            404827-34-5P,
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
         404827-35-6P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-
vl)amine
                             404827-36-7P
methyl-2H-pyrazol-3-yl)amine
                                            404827-37-8P,
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-
vl]amine
          404827-38-9P, (5,7-Difluoro-1H-indazol-3-vl)[2-(2-
trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-yl]amine
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
                      404827-41-4P,
bis(trifluoroacetate)
(5-Fluoro-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine 404827-42-5P,
[2-(2-Chlorophenv1)-6,7-dihvdro-5H-cvclopentapvrimidin-4-v1](5-fluoro-1H-
indazol-3-yl)amine 404827-43-6P,
(1H-Indazol-3-v1)(2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine 404827-44-7P,
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yllamine 404827-45-8P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-vl]amine
                               404827-46-9P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-
          404827-47-0P, [2-(2-Chlorophenyl)-6,7-dihydro-5H-
vl)amine
cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine 404827-48-1P,
[2-(2-Chlorophenvl)-6,7-dihvdro-5H-cvclopentapvrimidin-4-vl](5,7-difluoro-
1H-indazol-3-yl)amine 404827-49-2P,
(1H-Indazol-3-v1) (2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine
                                       404827-50-5P.
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yllamine 404827-51-6P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vl]amine
                                       404827-52-7P,
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
vl)amine
          404827-53-8P,
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
            404827-54-9P, (6-Fluoro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-55-0P,
3-[[2-(2-Trifluoromethylphenyl)quinazolin-4-yl]amino]-1H-indazole-5-
carboxylic acid methyl ester
                              404827-56-1P,
(5-Methyl-2H-pyrazol-3-yl)[2-(2-naphthyl-1-yl)quinazolin-4-yl]amine
404827-58-3P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](7-fluoro-1H-
indazol-3-vl)amine bis(trifluoroacetate) 404827-62-9P.
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate) 404827-64-1P,
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[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate) 404827-67-4P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate) 404827-70-9P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](7-fluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate) 404827-72-1P,
[2-(2-Chloropheny1)pyrido[3,4-d]pyrimidin-4-y1](5-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate) 404827-74-3P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                               404828-07-5P,
(1H-Indazol-3-yl) (2-phenylquinazolin-4-yl) amine
                                                404828-08-6P.
(5-Methyl-2H-pyrazol-3-yl)(2-phenyl-5,6,7,8-tetrahydroguinazolin-4-
          404828-09-7P, (5-Methyl-2H-pyrazol-3-yl)(2-phenyl-6,7,8,9-
vl)amine
tetrahydro-5H-cycloheptapyrimidin-4-yl)amine
                                              404828-10-0P.
(5-Methyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)-amine
404828-11-1P, (7-Chloro-2-pyridin-4-vlguinazolin-4-vl)(5-methyl-2H-pyrazol-
3-vl)amine
          404828-12-2P, (6-Chloro-2-pyridin-4-vlguinazolin-4-vl) (5-
                             404828-13-3P,
methyl-2H-pyrazol-3-yl)amine
(2-Cvclohexvlguinazolin-4-vl)(5-methvl-2H-pvrazol-3-vl)amine
404828-14-4P, (5-Methyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-15-5P, [2-(4-Iodophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-16-6P, [2-(4-Chlorophenyl)guinazolin-4-yl](5-methyl-2H-
vl)amine
pyrazol-3-vl)amine 404828-17-7P.
[2-(3,5-Dichlorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-18-8P, [2-(4-Cyanophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-19-9P, [2-(3-Iodophenyl)quinazolin-4-yl](5-methyl-2H-
vl)amine
pvrazol-3-v1)amine
                    404828-20-2P.
[2-(4-Ethylsulfanylphenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404828-21-3P, (5-Cyclopropy1-2H-pyrazol-3-y1)(2-phenylquinazolin-4-
v1)amine 404828-22-4P, [2-(4-tert-Butv1phenv1)quinazolin-4-v1](5-methv1-
2H-pyrazol-3-yl)amine
                      404828-23-5P,
[2-(4-Chlorophenyl)quinazolin-4-yl](5-cyclopropyl-2H-pyrazol-3-yl)amine
404828-24-6P, (2-Benzo[1,3]dioxol-5-ylquinazolin-4-yl)(5-methyl-2H-pyrazol-
           404828-25-7P, [2-(4-Dimethylaminophenyl)quinazolin-4-yl](5-
3-vl)amine
methyl-2H-pyrazol-3-yl)amine
                             404828-26-8P,
[2-(3-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-27-9P, (5-Cvclopropv1-2H-pvrazo1-3-v1)[2-(3,4-
dichlorophenyl)quinazolin-4-yl]amine
                                     404828-28-0P,
[2-(3-Ethynylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-29-1P, [2-(3-Methylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
          404828-31-5P, [2-(3,5-Difluorophenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine
                      404828-32-6P,
[2-(3-Chloro-4-fluorophenyl)guinazolin-4-yl](5-methyl-2H-pyrazol-3-
         404828-34-8P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-
vl)amine
trifluoromethylphenyl)guinazolin-4-yllamine 404828-35-9P.
[2-(3-Cyanophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-36-0P, [2-(3-Isopropylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
         404828-37-1P, (5-Methyl-2H-pyrazol-3-yl)(2-pyridin-3-
vl)amine
ylquinazolin-4-yl)amine
                        404828-38-2P,
[2-(3-Acetylphenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404828-39-3P, [2-(3,5-Bis(trifluoromethyl)phenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-vl)amine
                      404828-40-6P.
[2-(3-Hydroxymethylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-41-7P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-phenoxyphenyl)quinazolin-4-
          404828-42-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3-
vl]amine
phenoxyphenyl)quinazolin-4-yl]amine
                                     404828-43-9P 404828-44-0P,
(2-Phenylquinazolin-4-v1) (2H-pyrazol-3-v1) amine 404828-45-1P,
(2H-Pyrazol-3-y1)(2-pyridin-4-ylquinazolin-4-yl)amine 404828-46-2P,
(5-Ethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-47-3P,
(2-Phenylquinazolin-4-yl) (5-propyl-2H-pyrazol-3-yl)amine 404828-48-4P,
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(5-Isopropv1-2H-pvrazol-3-v1)(2-phenvlquinazolin-4-v1)amine
404828-49-5P, (5-tert-Butyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-50-8P, (5-tert-Butv1-2H-pyrazol-3-v1)(2-pyridin-4-vlguinazolin-4-
yl)amine 404828-51-9P, (5-Cyclopentyl-2H-pyrazol-3-yl)(2-
phenylquinazolin-4-yl)amine
                             404828-52-0P.
(5-Phenyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-53-1P,
(5-Carboxy-2H-pyrazo1-3-y1) (2-phenylquinazolin-4-y1) amine
                                                           404828-55-3P.
(5-Hydroxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-56-4P, (5-Methoxymethyl-2H-pyrazol-3-yl)(2-phenylguinazolin-4-
          404828-57-5P, [5-(3-Hvdroxypropv1)-2H-pvrazo1-3-v1](2-
phenylquinazolin-4-yl)amine
                             404828-59-7P,
[5-(3-Methoxypropyl)-2H-pyrazol-3-yl](2-phenylguinazolin-4-yl)amine
404828-60-0P, [5-(3-Aminopropyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
          404828-62-2P, (5-Isopropylcarbamoy1-2H-pyrazo1-3-v1)(2-
vl)amine
phenylquinazolin-4-yl)amine
                             404828-63-3P,
(5-Allylcarbamov1-2H-pyrazol-3-vl)(2-phenylguinazolin-4-vl)amine
404828-64-4P, [5-(2-Methoxyethylcarbamov1)-2H-pyrazo1-3-v1](2-
phenylquinazolin-4-yl)amine 404828-65-5P,
(5-Benzylcarbamov1-2H-pyrazo1-3-y1)(2-phenylquinazolin-4-y1)amine
404828-66-6P, (5-Cyclohexylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
          404828-67-7P, (5-Diethylcarbamoyl-2H-pyrazol-3-yl)(2-
phenylquinazolin-4-yl)amine
                             404828-68-8P,
[5-(Benzylmethylcarbamoy1)-2H-pyrazol-3-y1](2-phenylquinazolin-4-y1)amine
404828-69-9P, (2-Phenylquinazolin-4-yl)(5-propylcarbamoyl-2H-pyrazol-3-
          404828-70-2P, 15-(Ethylisopropylcarbamovl)-2H-pyrazol-3-yll(2-
vl)amine
phenylquinazolin-4-yl)amine
                             404828-71-3P,
(5-Cyclopropylcarbamoy1-2H-pyrazo1-3-y1) (2-phenylquinazolin-4-y1) amine
404828-72-4P, (5-Isobutylcarbamovl-2H-pyrazol-3-vl)(2-phenylquinazolin-4-
          404828-73-5P, [5-((3S)-3-Methoxymethylpyrrolidine-1-carbonyl)-
2H-pvrazol-3-v11(2-phenvlquinazolin-4-v1)amine
                                               404828-74-6P,
(2-Phenylquinazolin-4-yl) (5-m-tolylcarbamoyl-2H-pyrazol-3-yl)amine
404828-75-7P, (2-Phenylquinazolin-4-vl)(5-p-tolylcarbamovl-2H-pyrazol-3-
v1) amine 404828-76-8P, (5-Methylcarbamoyl-2H-pyrazol-3-yl) (2-
phenylguinazolin-4-vl)amine
                             404828-77-9P.
[5-(Morpholine-4-carbonyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
404828-78-0P, [5-(1-Methylpiperazine-4-carbonyl)-2H-pyrazol-3-yl](2-
phenylquinazolin-4-vl)amine
                             404828-79-1P,
[5-(2-Hydroxyethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
vl)amine
          404828-80-4P, (5-Carbamoy1-2H-pyrazol-3-y1)(2-phenylquinazolin-
             404828-82-6P, (4-Bromo-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
4-yl)amine
vl)amine
          404828-83-7P, (4-Bromo-5-methyl-2H-pyrazol-3-yl)(2-
phenylquinazolin-4-yl)amine
                             404828-84-8P,
(4-Cvano-2H-pvrazol-3-vl)(2-phenylquinazolin-4-vl)amine 404828-85-9P.
(5-Methyl-2H-pyrazol-3-yl)(2-morpholin-4-ylquinazolin-4-yl)amine
404828-86-0P, (5-Methyl-2H-pyrazol-3-yl)(2-piperazin-1-ylquinazolin-4-
         404828-87-1P, [2-(4-Methylpiperidin-1-yl)quinazolin-4-yl](5-
vl)amine
methyl-2H-pyrazol-3-yl)amine 404828-88-2P.
[2-(4-Methylpiperazin-1-v1)quinazolin-4-v1](5-methyl-2H-pyrazol-3-v1)amine
404828-89-3
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404828-89-3

(5-Methyl-2H-pyrazol-3-yl)(2-piperidin-1-ylquinazolin-4-yl)amine

404828-90-6P, [2-(Azepan-1-yl)quinazolin-4-yl)(5-methyl-2H-pyrazol-3-yl)amine

404828-90-6P, [2-(Azepan-1-yl)quinazolin-4-yl)(5-methyl-2H-pyrazol-3-yl)amine

404828-92-8P,

(5-Cyclopropyl-2H-pyrazol-3-yl)amine

404828-92-8P,

(5-Cyclopropyl-2H-pyrazol-3-yl)amine

404828-95-1P,

[2-(4-Cyclopentylaminopiperidin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine

404828-95-1P,

[2-(4-Cyclopentylaminopiperidin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine

404828-97-3P,

(5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-hydroxypiperidin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine

404828-97-3P,

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vl)guinazolin-4-vllamine 404828-98-4P,
(5-Cyclopropyl-2H-pyrazol-3-yl)[2-(1,3-dihydroisoindol-2-yl)quinazolin-4-
         404828-99-5P, [2-(Azepan-1-v1)quinazolin-4-v1](5-cvclopropv1-2H-
vllamine
pyrazol-3-yl)amine 404829-00-1P,
(5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-dihydro-1H-isoquinolin-2-
yl) quinazolin-4-yl]amine 404829-01-2P,
(5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(2,3-dihydroindo1-1-y1)quinazolin-4-
          404829-02-3P, (5-Cvclopropv1-2H-pvrazo1-3-v1)[2-(4-
vl]amine
hydroxymethylpiperidin-1-vl)guinazolin-4-vllamine 404829-03-4P.
(5-Cvclopropv1-2H-pvrazo1-3-v1)[2-(3,4-dihvdro-2H-quinolin-1-v1)quinazolin-
            404829-05-6P, 5-(Piperidine-1-carbonyl)-2H-pyrazol-3-yl-[2-
4-vllamine
(piperidine-1-vl)quinazolin-4-vllamine
                                       404829-06-7P,
(5-Hydroxymethyl-2H-pyrazol-3-yl)[2-(piperidin-1-yl)quinazolin-4-yl]amine
404829-07-8P, (5-Carbamoyl-2H-pyrazol-3-yl)[2-(piperidin-1-yl)quinazolin-4-
          404829-08-9P, (5-Carbamov1-2H-pyrazo1-3-y1)[2-(4-
vl]amine
methylpiperidin-1-vl)quinazolin-4-vl]amine 404829-09-0P.
(5,7-Difluoro-1H-indazol-3-yl)(2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
yl)amine 404829-10-3P, (2-Phenyl-5,6,7,8-tetrahydroquinazolin-4-yl)(5-
trifluoromethyl-1H-indazol-3-v1)amine 404829-11-4P,
(7-Fluoro-1H-indazol-3-yl)(2-phenylquinazolin-4-yl)amine
                                                          404829-12-5P.
(5-Fluoro-1H-indazol-3-yl) (2-phenylquinazolin-4-yl)amine
                                                          404829-13-6P,
(5,7-Difluoro-1H-indazol-3-yl)(2-phenylquinazolin-4-yl)amine
404829-14-7P, (1H-Indazol-3-yl)[2-(3-trifluoromethylphenyl)quinazolin-4-
vl]amine
          404829-15-8P, (2-Phenylquinazolin-4-yl)(1H-pyrazolo[4,3-
                     404829-16-9P.
blpvridin-3-vl)amine
[5-(3-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylquinazolin-4-yl)amine
                             404829-17-0P.
(6-0xo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-(2-
phenylquinazolin-4-yl)amine 404829-18-1P,
[5-(4-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylquinazolin-4-yl)amine 404829-19-2P,
[5-(2,4-Dichlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-
vl](2-phenylquinazolin-4-yl)amine 404829-21-6P,
[6-Oxo-5-(3-trifluoromethylphenyl)-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-
3-v1](2-phenylquinazolin-4-v1)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
  analogs as protein kinase inhibitors for treatment of cancer,
  diabetes, and Alzheimer's disease)
404829-22-7P, [6-0xo-5-(4-Phenoxyphenyl)-5,6-dihydro-1H-pyrazolo[4,3-
clpvridazin-3-vll(2-phenylquinazolin-4-vl)amine 404829-23-8P.
[5-(4-Chlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylguinazolin-4-vl)amine 404829-24-9P.
(2-Imidazol-1-ylquinazolin-4-yl)(1H-indazol-3-yl)amine 404829-25-0P,
(1H-Indazol-3-v1)[2-(2-methylimidazol-1-v1)guinazolin-4-v1]amine
404829-26-1P, (1H-Indazol-3-yl)(2-piperidin-1-ylquinazolin-4-yl)amine
404829-27-2P, (1H-Indazol-3-yl)[2-(octahydroquinolin-1-yl)quinazolin-4-
          404829-28-3P, (1H-Indazol-3-v1)[2-(2,6-dimethylmorpholin-4-
vllamine
v1)guinazolin-4-v1lamine 404829-29-4P.
(5-Methyl-2H-pyrazol-3-yl)(2-phenylpyrimidin-4-yl)amine
404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
v11(5-methv1-2H-pyrazol-3-v1)amine 404829-32-9P,
[2-(4-Methylpiperidin-1-yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-33-0P, [2-(4-Methylpiperidin-1-y1)-5-nitropyrimidin-4-y1](5-methyl-
2H-pvrazo1-3-v1)amine 404829-34-1P,
[5-Amino-2-(4-Methylpiperidin-1-yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
v1) amine 404829-35-2P, [5-Amino-6-methyl-2-(4-methylpiperidin-1-
yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine 404829-36-3P
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, [6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-
vl)amine 404829-37-4P.
[2-(4-Chlorophenv1)-6-methylpyrimidin-4-v1](5-furan-2-v1-2H-pyrazol-3-
yl)amine 404829-38-5P,
[5-(Furan-2-v1)-2H-pyrazol-3-y1](6-methyl-2-phenylpyrimidin-4-y1)amine
404829-39-6P 404829-40-9P,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yllamine 404829-41-0P,
[2-(2,3-Dihydrobenzo[1,4]dioxin-2-v1)-6-methylpyrimidin-4-v1](5-furan-2-v1-
2H-pvrazol-3-vl)amine
                       404829-42-1P,
[2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-ethylpyrimidin-4-yl](5-methyl-2H-
                    404829-43-2P,
pvrazol-3-vl)amine
(6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2H-
pyrazol-3-yl)amine 404829-45-4P,
[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine 404829-46-5P,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-methy1pheny1)-pyrimidin-4-
yl]amine 404829-47-6P,
(6-Methoxymethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazol-3-yl)amine 404829-49-8P.
(6-Methyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-50-1P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine
                       404829-51-2P,
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
                          404829-53-4P,
tolvlpvrimidin-4-vl)amine
(1H-Indazol-3-yl) (6-methoxymethyl-2-phenylpyrimidin-4-yl) amine
404829-54-5P, (5-Methyl-2H-pyrazol-3-v1)-(2-pyridin-4-vlthieno[3,2-
d]pyrimidin-4-yl)amine 404829-55-6P,
(5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[3,4-d]pyrimidin-4-yl)amine
404829-56-7P, (5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[2,3-d]pyrimidin-4-
          404829-57-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)-(2-
phenylpyrido[3,4-d]pyrimidin-4-v1)amine
                                        404829-60-3P,
(5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(4-methylpiperidin-1-y1)pyrrolo[3,2-
d]pvrimidin-4-vl]amine
                       404829-62-5P,
(5-Fluoro-1H-indazol-3-yl)-(2-phenyl-5,6,7,8-tetrahydropyrido[4,3-
dlpvrimidin-4-vl)amine
                       404829-63-6P,
(1H-Indazol-3-yl)[3-(2-trifluoromethylphenyl)isoquinoline-1-yl]amine
404829-65-8P, (5,7-Difluoro-1H-indazol-3-yl)[3-(2-
trifluoromethylphenyl)isoquinolin-1-yl]amine
                                              404829-66-9P,
(1H-Indazol-3-v1) (2-phenylquinolin-4-v1) amine
                                              404829-67-0P.
(2-Phenylquinolin-4-yl) (1H-pyrazolo[4,3-b]pyridin-3-yl) amine
404829-68-1P, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)quinolin-4-
         404829-69-2P, (5,7-Difluoro-1H-indazol-3-v1)[2-(2-
vl]amine
trifluoromethylphenyl)guinolin-4-yllamine 404829-70-5P.
[2-(2-Trifluoromethylphenyl)guinolin-4-vl](1H-pyrazolo[4,3-b]pyridin-3-
yl)amine
          404829-71-6P, (2-Phenylquinazolin-4-yl)(2H-1,2,4-triazol-3-
vl)amine
           404829-72-7P, (5-Methyl-2H-1,2,4-triazol-3-v1)(2-
phenylquinazolin-4-yl)amine
                             404829-73-8P,
(2H-1,2,4-Triazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404829-74-9P, (5-Methyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404829-75-0P.
(5-Methylsulfanyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404829-76-1P.
(1H-[1,2,4]Triazol-3-v1)[3-(2-trifluoromethylphenyl)isoquinolin-1-v1]amine
404829-77-2P. (2-Phenylquinolin-4-yl)(1H-1,2,4-triazol-3-yl)amine
404829-78-3P, (1H-[1,2,4]Triazol-3-v1)[2-(2-trifluoromethylphenyl)guinolin-
4-y1]amine 404829-79-4P,
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(1H-Indazol-3-v1)[5-methvl-6-morpholin-4-v1-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-80-7P
                                                          404829-81-8P
404845-75-6P
             404867-38-5P
                            404867-39-6P 404867-40-9P
                                                          404867-41-0P
404867-42-1P
             404867-43-2P
                            404867-44-3P
                                          404867-45-4P
                                                          404867-46-5P
                                                          404867-51-2P
404867-47-6P
             404867-48-7P
                            404867-49-8P
                                          404867-50-1P
404867-52-3P
             404867-53-4P
                            404867-54-5P
                                           404867-55-6P
                                                          404867-56-7P
             404867-58-9P
                            404867-59-0P
                                                          404867-61-4P
404867-57-8P
                                           404867-60-3P
404867-62-5P 404867-63-6P
                            404867-64-7P 404867-65-8P
                                                          404867-67-0P
404867-68-1P 404867-69-2P
                            404867-70-5P 404867-71-6P
                                                          404867-72-7P
404867-73-8P 404867-74-9P 404867-75-0P 404867-76-1P
                                                          404867-77-2P
404867-78-3P 404867-79-4P 404867-80-7P
                                          404867-81-8P 404867-82-9P
                           404867-85-2P
                                          404867-86-3P
                                                         404867-87-4P
404867-83-0P
             404867-84-1P
             404867-89-6P 404867-94-3P
404867-88-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation): USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
  analogs as protein kinase inhibitors for treatment of cancer,
  diabetes, and Alzheimer's disease)
404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2-
trifluoromethylphenyl)pyrimidine
                                 404827-84-5P,
4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine
404827-86-79, 4-Chloro-6-(2-chlorophenvl)-2-(2-
trifluoromethylphenyl)pyrimidine
                                 404827-87-89.
4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine
404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-
                 404829-31-8P,
pvrimidin-4-one
(6-Chloro-2-phenylpyrimidin-4-v1) (5-methyl-2H-pyrazol-3-v1) amine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
  (intermediate; preparation of heterocyclylpyrazolamines and analogs as
  protein kinase inhibitors for treatment of cancer, diabetes,
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- and Alzheimer's disease)
- 404827-83-4 HCAPLUS RN
- CN Pyrimidine, 4-chloro-6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- 404827-84-5 HCAPLUS RN
- Pyrimidine, 4-chloro-6-phenyl-2-(2-(trifluoromethyl)phenyll- (CA INDEX CN NAME)

- RN 404827-86-7 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

- RN 404827-87-8 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

- RN 404828-02-0 HCAPLUS
- CN 4(3H)-Pyrimidinone, 6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-31-8 HCAPLUS
- CN 4-Pyrimidinamine, 6-chloro-N-(5-methyl-1H-pyrazol-3-y1)-2-phenyl- (CA INDEX NAME)

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404826-28-4P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-
Methyl-2H-pyrazol-3-v1)amine
                              404826-46-6P,
(1H-Indazol-3-yl) [6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine
404826-47-7P, (1H-Indazol-3-yl)[6-phenyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine
                                           404826-48-8P,
(1H-Indazol-3-yl)[6-(pyridin-4-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
          404826-49-9P,
vl]amine
(1H-Indazol-3-v1)[6-(pyridin-2-v1)-2-(2-trifluoromethylphenyl)pyrimidin-4-
          404826-50-2P,
vl]amine
[6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-v1)amine
             404826-51-3P,
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
vl)amine
           404826-52-49,
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
indazol-3-yl)amine 404826-53-5P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
yl](7-fluoro-1H-indazol-3-yl)amine 404826-55-7P,
(5,7-Difluoro-1H-indazol-3-y1)[5,6-Dimethyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-56-8P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
           404826-57-99,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](7-fluoro-1H-indazol-3-
vl)amine
           404826-58-0P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-fluoro-1H-indazol-3-
           404826-59-1P,
vl)amine
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-vl](1H-indazol-3-vl)amine
404827-32-3P, [6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-
v1](5-phenv1-2H-pvrazo1-3-v1)amine 404827-33-4P,
(5-Furan-2-y1-2H-pyrazo1-3-y1) [6-methy1-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-yllamine
                                              404827-34-59,
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
          404827-52-70,
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
vl)amine 404827-53-8P.
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-v1)amine
            404829-29-4P,
(5-Methyl-2H-pyrazol-3-vl)(2-phenylpyrimidin-4-vl)amine
404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
v1](5-methy1-2H-pyrazo1-3-y1)amine 404829-36-3P,
[6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-yl)amine
404829-37-4P, [2-(4-Chlorophenvl)-6-methylpyrimidin-4-vl](5-furan-
2-y1-2H-pyrazol-3-y1)amine
                           404829-38-5P.
[5-(Furan-2-y1)-2H-pyrazol-3-y1](6-methy1-2-phenylpyrimidin-4-y1)amine
404829-39-6P
              404829-40-9P,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-43-29,
(6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404929-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2H-
pyrazol-3-yl)amine
                    404829-45-4P.
[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine
          404829-46-5P,
(5-Furan-2-y1-2H-pyrazol-3-y1)[6-methy1-2-(4-methy1pheny1)-pyrimidin-4-
yl]amine 404829-47-6P,
(6-Methoxymethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-pyrazol-3-yl)amine
404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazo1-3-y1)amine 404829-49-8P,
(6-Methyl-2-phenylpyrimidin-4-vl) (5-methyl-2H-pyrazol-3-vl)amine
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494829-50-1P, [6-Ethy1-2-(4-methy1pheny1)pyrimidin-4-y1](5-methy1-

2H-pyrazol-3-yl)amine 464829-51-2P,

[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl] (5-methyl-2H-pyrazol-3-yl) amine

404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-

tolylpyrimidin-4-yl)amine 404829-53-4P,

(1H-Indazol-3-yl)(6-methoxymethyl-2-phenylpyrimidin-4-yl)amine 404829-79-4P, (1H-Indazol-3-yl)[5-methyl-6-morpholin-4-yl-2-(2-

trifluoromethylphenyl)pyrimidin-4-yl]amine

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(protein kinase inhibitor; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer,

diabetes, and Alzheimer's disease)

RN 404826-28-4 HCAPLUS

4-Pyrimidinamine, 2-(2-chlorophenyl)-5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

RN 404826-46-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-methyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-47-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-phenyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-48-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(4-pyridiny1)-2-[2-(trifluoromethy1)pheny1]-4pyrimidiny1]- (CA INDEX NAME)

- RN 404826-49-9 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-50-2 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-51-3 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-52-4 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-5-fluoro- (CA INDEX NAME)

- RN 404826-53-5 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chloropheny1)-5,6-dimethyl-4-pyrimidinyl](CA INDEX NAME)

- RN 404826-54-6 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-7-fluoro- (CA INDEX NAME)

- RN 404826-55-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

- RN 404826-56-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

- RN 404826-57-9 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-7fluoro- (CA INDEX NAME)

- RN 404826-58-0 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5fluoro- (CA INDEX NAME)

- RN 404826-59-1 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2,4-dichlorophenyl)-5,6-dimethyl-4-pyrimidinyl]- (CA INDEX NAME)

- RN 404827-32-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-33-4 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-y1]-6-methyl-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-34-5 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-52-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404827-53-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404829-29-4 HCAPLUS

CN 4-Pyrimidinamine, N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-30-7 HCAPLUS

CN Acetamide, N-[4-[[6-[(5-methyl-1H-pyrazol-3-y1)amino]-2-phenyl-4pyrimidinyl]thio]phenyl]- (CA INDEX NAME)

RN 404829-36-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-phenyl-1H-pyrazol-3-yl)(CA INDEX NAME)

RN 404829-37-4 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-chloropheny1)-N-[5-(2-furany1)-1H-pyrazol-3-y1]-6-methy1- (CA INDEX NAME)

- RN 404829-38-5 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazol-3-yl]-6-methyl-2-phenyl-(CA INDEX NAME)

- RN 404829-39-6 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-40-9 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-43-2 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-44-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-phenyl-N-(5-phenyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

- RN 404829-45-4 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-46-5 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 404829-47-6 HCAPLUS
- CN 4-Pyrimidinamine, 6-(methoxymethyl)-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl-(CA INDEX NAME)

- RN 404829-48-7 HCAPLUS
- CN 4-Pyrimidinamine, 5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-49-8 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-50-1 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)-(CA INDEX NAME)

RN 404829-51-2 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-chloropheny1)-6-ethy1-N-(5-methy1-1H-pyrazol-3-y1)-(CA INDEX NAME)

RN 404829-52-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

RN 404829-53-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(methoxymethy1)-2-pheny1-4-pyrimidiny1]- (CA INDEX NAME)

RN 404829-79-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5-methyl-6-(4-morpholinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS

RECORD (13 CITINGS)

REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 20 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2002:220580 HCAPLUS Full-text

DOCUMENT NUMBER: 136:247606

TITLE: Preparation of 3-(4-pyrimidinylamino)pyrazole

derivatives as protein kinase inhibitors, especially of Aurora-2 and GSK-3, for treating cancer, diabetes

and Alzheimer's disease.

Davies, Robert; Bebbington, David; Binch, Haley; INVENTOR(S):

> Knegtel, Ronald; Golec, Julian M. C.; Patel, Sanjay; Charrier, Jean-Damien; Kay, David; Davies, Robert

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 357 pp.

CODEN: PIXXD2

Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

DOCUMENT TYPE:

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 $\hbox{AU 2006-201396} \qquad \hbox{A3 20060404} <-- \\ \hbox{ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT}$ 

OTHER SOURCE(S): MARPAT 136:247606 ED Entered STN: 22 Mar 2002

ED

The preparation of title compds. I and their pharmaceutically acceptable salts AB or prodrugs is described (wherein: R1, R2 = dependently form (un)substituted fused, unsatd, or partially unsatd., 5-8 membered carbocyclo ring: R3, R4 = independently H, aliphatic, arvl, heteroarvl, heterocyclyl, or wide variety of functionalized sidechains; or dependently form a fused, 5-8 membered, unsatd. or partially unsatd, ring having 0-3 ring heteroatoms (N, S, O); R5 = fused, (un)substituted 5-7 membered monocyclic ring or 8-10 membered bicyclic ring (arvl, heteroarvl, heterocyclyl or carbocyclyl, said heteroarvl or heterocyclyl ring having 1-4 ring heteroatoms (N, S, O))]. For example, chlorination of quinazolone II with phosphorus oxychloride, followed by condensation with 3-amino-5-methylpyrazole afforded claimed compound III. Compds. I are inhibitors of GSK-3 and Aurora-2 protein kinases. The invention also relates to methods of treating diseases associated with these protein kinases, such as diabetes, cancer and Alzheimer's disease. In bioassays, compds. I inhibited the following kinases with Kis reported < 100 nM: GSK-3B (163 compds.), AURORA-2 (65 compds.), CDK-2 (no data), ERK2 (8 compds.), AKT (no data), and Human Src kinase (21 compds.). Claims included 146 specific compds., and 188 examples were given. The syntheses of 6 compds. and 46 intermediates are described.

IC ICM C07D403-12

ΙT

ICS C07D401-14; A61K031-506; A61K031-4155; A61P035-00; C07D403-14; C07D405-14; C07D521-00; C07D409-14; C07D471-04; C07D487-04

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

404826-20-6P	404826-22-8P	404826-23-9P	404826-24-0P	404826-25-1P
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404826-52-4P	404826-53-5P	404826-54-6P		
404826-55-7P	404826-56-8P	404826-57-9P		
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RL: FAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(preparation of 3-(4-pyrimidinylamino)pyrazole compds. as protein kinase inhibitors)

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404829-46-5P
              404829-47-6P
                            404829-48-7P
404829-49-8P
              404829-50-1P
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404829-52-3P
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404829-55-6P
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                           404829-57-8P
                                         404829-60-3P 404829-61-4P.
(6-Benzyl-2-phenyl-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-4-yl) (5-fluoro-
1H-indazol-3-yl)amine 404829-62-5P,
(5-Fluoro-1H-indazol-3-v1)-(2-phenv1-5,6,7,8-tetrahydropyrido[4,3-
d]pyrimidin-4-yl)amine 404829-63-6P 404829-65-8P 404829-66-9P
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404845-75-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (preparation of 3-(4-pyrimidinylamino)pyrazole compds, as protein kinase
   inhibitors)
607-68-1P, 2,4-Dichloroquinazoline 41339-17-7P 61272-71-7P
61272-72-8P 404826-17-1P, 2-(2-Trifluoromethylphenyl)pyrido[2,3-
d][1,3]oxazin-4-one
                       404826-18-2P,
2-(2-Trifluoromethylbenzoylamino)nicotinamide 404826-19-3P,
4-Chloro-2-(3,5-dichlorophenyl)quinazoline 404827-60-7P 404827-65-2P
404827-75-4P 404827-76-5P 404827-77-6P 404827-78-7P 404827-79-8P
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404828-02-0P 404828-03-1P 404828-04-2P 404828-05-3P
404828-06-4P 404828-30-4P, (2-Chloroguinazolin-4-vl)(5-methyl-1H-pyrazol-
3-v1)amine 404829-31-8P,
(6-Chloro-2-phenylpyrimidin-4-vl) (5-methyl-1H-pyrazol-3-vl)amine
404829-59-0P 404845-97-2P, 2-(2-Trifluoromethylphenyl)-3H-pyrido[2,3-
d]pyrimidin-4-one 404846-14-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation of 3-(4-pyrimidinvlamino)pyrazole compds. as protein kinase
   inhibitors)
404826-28-4P 404826-46-6P
404826-48-8P 404826-49-9P
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                404826-58-0P
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                               404829-45-4P
404829-43-2P
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- RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
- THU (Therapeutic use); BIOL (Biological study); PREP
- (Preparation); USES (Uses)

(preparation of 3-(4-pyrimidinylamino)pyrazole compds. as protein kinase inhibitors)

RN 404826-28-4 HCAPLUS

ΙT

CN 4-Pyrimidinamine, 2-(2-chlorophenyl)-5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

RN 404826-46-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-methyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-47-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-phenyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-48-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(4-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-49-9 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-pyridiny1)-2-[2-(trifluoromethy1)pheny1]-4pyrimidiny1]- (CA INDEX NAME)

RN 404826-50-2 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-51-3 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-52-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5-fluoro- (CA INDEX NAME)

RN 404826-53-5 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chloropheny1)-5,6-dimethyl-4-pyrimidiny1]-(CA INDEX NAME)

RN 404826-54-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-7-fluoro- (CA INDEX NAME)

RN 404826-55-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

RN 404826-56-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

RN 404826-57-9 HCAPLUS

 $\texttt{CN} \qquad \texttt{1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-7-} \\$ 

fluoro- (CA INDEX NAME)

RN 404826-58-0 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5fluoro- (CA INDEX NAME)

- RN 404826-59-1 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2,4-dichlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-(CA INDEX NAME)

- RN 404827-52-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404827-53-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-4-

pyrimidinyl]- (CA INDEX NAME)

- RN 404829-29-4 HCAPLUS
- CN 4-Pyrimidinamine, N-(5-methyl-1H-pyrazol-3-y1)-2-phenyl- (CA INDEX NAME)

- RN 404829-30-7 HCAPLUS
- CN Acetamide, N-[4-[[6-[(5-methyl-1H-pyrazol-3-yl)amino]-2-phenyl-4-pyrimidinyl]thio]phenyl]- (CA INDEX NAME)

- RN 404829-36-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-phenyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-37-4 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6methyl- (CA INDEX NAME)

- RN 404829-38-5 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazol-3-y1]-6-methy1-2-phenyl-(CA INDEX NAME)

- RN 404829-39-6 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-40-9 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-43-2 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-44-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-phenyl-N-(5-phenyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

RN 404829-45-4 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-y1)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-46-5 HCAPLUS

 $\texttt{CN} \qquad 4-\texttt{Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazo1-3-y1]-6-methy1-2-(4-methy1-2-1)} \\$ 

methylphenyl) - (CA INDEX NAME)

RN 404829-47-6 HCAPLUS

CN 4-Pyrimidinamine, 6-(methoxymethyl)-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl-(CA INDEX NAME)

RN 404829-48-7 HCAPLUS

CN 4-Pyrimidinamine, 5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-49-8 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-methyl-1H-pyrazol-3-y1)-2-phenyl- (CA INDEX NAME)

- RN 404829-50-1 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-51-2 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-52-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-53-4 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(methoxymethyl)-2-phenyl-4-pyrimidinyl]- (CA INDEX NAME)

RN 404829-79-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5-methyl-6-(4-morpholinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

IT 404827-83-4P 404827-84-5P 404827-86-7P 404827-87-8P 404826-02-0P 404829-31-8P,

(6-Chloro-2-phenylpyrimidin-4-yl)(5-methyl-1H-pyrazol-3-yl)amine RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 3-(4-pyrimidinylamino)pyrazole compds. as protein kinase inhibitors)

RN 404827-83-4 HCAPLUS

CN Pyrimidine, 4-chloro-6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404827-84-5 HCAPLUS

CN Pyrimidine, 4-chloro-6-phenyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404827-86-7 HCAPLUS

CN Pyrimidine, 4-chloro-6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl](CA INDEX NAME)

RN 404827-87-8 HCAPLUS

CN Pyrimidine, 4-chloro-6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

RN 404828-02-0 HCAPLUS

CN 4(3H)-Pyrimidinone, 6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-31-8 HCAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

5

OS.CITING REF COUNT:

THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT => d ibib ed abs hitind hitstr 21-38

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L52 ANSWER 21 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:220579 HCAPLUS Full-text

DOCUMENT NUMBER: 136:247580

TITLE: Preparation of pyrazolamines and analogs as protein

kinase inhibitors for treatment of cancer, diabetes,

and Alzheimer's disease

INVENTOR(S): Davies, Robert; Li, Pan; Golec, Julian; Bebbington,
David

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 406 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 136:247580

ED Entered STN: 22 Mar 2002

GI

Title compds. I (wherein G = Ring C or Ring D: Ring C = (un)substituted Ph. AB pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from arvl. heteroarvl. heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)saturated fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring containing 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)20, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliphatic, (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliphatic), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliphatic), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliphatic group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepared as protein kinase inhibitors, especially as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (triazinyl)pyrazolamines and indazolamines I [wherein Z1, Z2, and Z3 = N; Z4 = CRyl. Examples include data for approx. 300 invention compds, prepared by a variety of synthetic methods and bioassay results for the inhibition of GSK-

TC

CC

(Reactant or reagent)

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β3, Aurora-2, ERK, and Src. For instance, the N-(4-pyrimidiny1)-3-
pyrazolamine II was prepared and exhibited Ki values of < 0.1 µM for glycogen
synthetase kinase 3\beta (GSK-3\beta) and 0.1-1.0 \mu\text{M} for Aurora-2.
ICM C07D403-12
ICS C07D401-14; C07D409-14; A61K031-497; A61K031-53; A61P035-00;
     C07D403-14; C07D405-14; C07D417-14; C07D471-04; C07D487-04
28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1
607-68-1P, 2,4-Dichloroguinazoline 41339-17-7P,
5-Nitro-1H-indazol-3-ylamine 61272-71-7P, 5-Bromo-1H-indazol-3-ylamine
61272-72-8P, 5-Fluoro-1H-indazol-3-vlamine 404826-17-1P,
2-(2-Trifluoromethylphenyl)pyrido[2,3-d][1,3]oxazin-4-one
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2-(2-Trifluoromethylbenzovlamino)nicotinamide 404826-19-3P.
4-Chloro-2-(3,5-dichlorophenyl)quinazoline 404826-26-2P,
[4-(4-Methylpiperidin-1-yl)pyrimidin-2-yl](5-methyl-2H-pyrazol-3-yl)amine
404827-60-7P, 7-Fluoro-1H-indazol-3-vlamine
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5,7-Difluoro-1H-indazol-3-ylamine
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6-Fluoro-1H-indazol-3-vlamine 404827-76-5P,
7-Fluoro-6-trifluoromethyl-1H-indazol-3-ylamine
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6-Bromo-1H-indazol-3-ylamine 404827-78-7P, 4-Fluoro-1H-indazol-3-ylamine
404827-79-8P, 4-Pyrrol-1-yl-1H-indazol-3-ylamine
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4-Chloro-5,6-dimethyl-2-(2-trifluoromethylphenyl)pyrimidine
404827-81-2P, 4-Chloro-2-(2-chlorophenyl)-5,6-dimethylpyrimidine
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4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-85-6P,
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trifluoromethylphenyl)pyrimidine
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6-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3-
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4-Chloro-2-(4-fluoro-2-trifluoromethylphenyl)guinazoline
4-Chloro-2-(2-chloro-5-trifluoromethylphenyl)quinazoline 404827-93-6P,
4-Chloro-2-(2-chloro-4-nitrophenyl) quinazoline 404827-94-7P,
4-Chloro-2-(2-trifluoromethylphenyl)guinazoline
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4-Chloro-2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidine
404827-96-9P, 4-Chloro-2-(2-chlorophenv1)-6,7,8,9-tetrahydro-5H-
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4-Chloro-2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidine
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4-Chloro-8-methoxy-2-(2-trifluoromethylphenyl)quinazoline
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2-(4-Chloroquinazolin-2-vl)benzonitrile 404828-01-9P,
6-Methyl-2-(2-trifluoromethylphenyl)-3H-pyrimidin-4-one
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pyrimidin-4-one 404828-03-1P, 2-(2-Chloro-5-trifluoromethylphenyl)-3H-
guinazolin-4-one 404828-04-2P,
2-(4-Fluoro-2-trifluoromethylphenyl)-3H-quinazolin-4-one 404828-05-3P,
2-(4-Nitro-2-chlorophenyl)-3H-quinazolin-4-one 404828-06-4P,
2-(5-Fluoro-2-trifluoromethylphenyl)-3H-quinazolin-4-one 404828-30-4P,
(2-Chloroquinazolin-4-yl) (5-methyl-1H-pyrazol-3-yl) amine
404829-31-8P, (6-Chloro-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazol-3-yl)amine
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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(intermediate; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease) 404826-28-49, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-Methv1-2H-pvrazo1-3-v1)amine 404826-29-5P, [2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](1Hindazo1-3-y1)amine 404826-30-8P, (5-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8tetrahydropyrido[3,4-d]pyrimidin-4-vllamine 404826-31-9P. [2-(2-Chlorophenv1)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-v1](7fluoro-1H-indazol-3-yl)amine 404826-32-0P, [2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](5fluoro-1H-indazol-3-vl)amine 404826-33-1P, [2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](5,7difluoro-1H-indazol-3-vl)amine 404826-34-2P, (7-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8tetrahydroguinazolin-4-vl]amine 404826-35-3P, (5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8tetrahydroguinazolin-4-vllamine 404826-36-4P, (5,7-Difluoro-1H-indazol-3-y1)[2-(2-trifluoromethylpheny1)-5,6,7,8tetrahydroquinazolin-4-yl]amine 404826-37-5P, (5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8tetrahydroguinazolin-4-vllamine 404826-38-6P, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9tetrahydro-5H-cycloheptapyrimidin-4-vllamine 404826-39-7P. [6-Benzyl-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3d]pyrimidin-4-y1](5-fluoro-1H-indazol-3-y1)amine 404826-40-0P. (1H-Indazol-3-v1)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-5Hcycloheptapyrimidin-4-yl]amine 404826-41-1P, (7-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl]amine 404826-42-2P, (5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl]amine 404826-43-3P, (5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8tetrahydropyrido[4,3-d]pyrimidin-4-yl]amine 404826-44-4P, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydroquinazolin-4-vl]amine 404826-46-6P, (1H-Indazol-3-yl)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-47-7P, (1H-Indazol-3-yl)[6-phenyl-2-(2trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-48-89, (1H-Indazol-3-vl)[6-(pyridin-4-vl)-2-(2-trifluoromethylphenyl)pyrimidin-4-404826-49-9P, yl]amine (1H-Indazol-3-vl)[6-(pyridin-2-vl)-2-(2-trifluoromethylphenyl)pyrimidin-4-404826-50-20, vllamine [6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-404826-51-3P, 3-vl)amine [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-404826-52-4P, vl)amine [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1Hindazol-3-vl)amine 404826-53-5P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine 404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4vl](7-fluoro-1H-indazol-3-yl)amine 404826-55-7P. (5,7-Difluoro-1H-indazol-3-yl)[5,6-Dimethyl-2-(2trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-56-8P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3v1)amine 404826-57-99, [2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](7-fluoro-1H-indazol-3-404826-58-0P, v1)amine

[2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](5-fluoro-1H-indazol-3-

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vl)amine 404826-59-1P,
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-60-4P, (5-Methyl-2H-pyrazol-3-yl)[2-(2-methylphenyl)guinazolin-4-
yl]amine
         404826-61-5P, [2-(2,4-Difluorophenyl)quinazolin-4-yl](5-methyl-
2H-pvrazol-3-vl)amine 404826-62-6P,
[2-(2,5-Dimethoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404826-63-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404826-64-8P, [2-(2-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-
vl)amine
pvrazo1-3-v1)amine
                   404826-65-9P.
[2-(2,6-Dimethylphenyl)quinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404826-66-0P, [2-(2-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404826-67-1P, [2-(2,3-Dimethylphenyl)guinazolin-4-vl](5-methyl-
2H-pyrazol-3-vl)amine
                       404826-68-2P,
(5-Methyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-69-3P, [2-(2-Ethylphenyl)quinazolin-4-yl](5-Methyl-2H-
vl]amine
pvrazol-3-vl)amine
                    404826-70-6P.
(2-Biphenv1-2-vlquinazolin-4-vl) (5-methv1-2H-pvrazol-3-vl) amine
404826-71-7P, [2-(2-Hydroxyphenyl)quinazolin-4-yl](5-Methyl-2H-pyrazol-3-
         404826-72-8P, [2-(2-Ethoxyphenyl)quinazolin-4-yl](5-Methyl-2H-
pyrazol-3-yl)amine
                    404826-73-9P,
[5-(Thiophen-2-y1)-2H-pyrazol-3-y1][2-(2-trifluoromethylpheny1)quinazolin-
4-y1]amine 404826-74-0P, [4-(Thiophen-2-y1)-2H-pyrazol-3-y1][2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-75-1P.
(4-Phenyl-2H-pyrazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-76-2P, (5-tert-Butvl-2H-pyrazol-3-vl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-77-3P,
(5-Phenyl-2H-pyrazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-78-4P, (4,5-Diphenvl-2H-pyrazol-3-vl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-79-5P,
(4-Carbamov1-2H-pvrazo1-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-
yl]amine 404826-80-8P, (2H-Pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine
                                             404826-81-9P.
(5-Hydroxy-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-82-0P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-83-1P,
(5-Methoxymethyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-84-2P, (1H-Indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-85-3P.
(4-Chloro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-86-4P, (5-Fluoro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine 404826-87-5P,
(7-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine
          404826-88-6P, (5-Methyl-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-89-7P,
[2-(2,6-Dichlorophenyl)guinazolin-4-yl](5-fluoro-1H-indazol-3-yl)amine
404826-90-0P, [2-(2-Chlorophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine
404826-91-1P, (5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine 404826-92-2P,
(4-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-
            404826-93-3P, [2-(2,6-Dichlorophenvl)quinazolin-4-vl](1H-
4-vllamine
indazol-3-yl)amine
                    404826-94-4P.
(1H-Indazol-3-yl)[2-(2-methylphenyl)quinazolin-4-yl]amine
                                                          404826-95-5P,
(7-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-
            404826-96-6P, (6-Trifluoromethyl-1H-indazol-3-vl)[2-(2-
4-vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-98-8P,
(5,7-Difluoro-1H-indazol-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine 404826-99-9P, (4-Pvrrol-1-vl-1H-indazol-3-vl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-00-5P,
(5-Amino-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-v1]amine
404827-01-6P, [2-(2-Chlorophenyl)quinazolin-4-yl](7-fluoro-1H-indazol-3-
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yl)amine 404827-02-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-fluoro-1H-
indazo1-3-y1)amine 404827-03-8P,
[2-(2-Chlorophenyl)guinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-04-9P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-trifluoromethyl-1H-
indazol-3-vl)amine 404827-05-0P,
[2-(2-Cyanophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine 404827-07-2P,
(6-Chloro-1H-indazo1-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-4-
         404827-08-3P, (7-Fluoro-6-trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine
                                            404827-09-4P.
(6-Bromo-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404827-10-7P, [2-(2,4-Bis-trifluoromethylphenyl)quinazolin-4-yl](5,7-
difluoro-1H-indazol-3-vl)amine
                               404827-11-8P,
(5,7-Difluoro-1H-indazol-3-vl)[2-(4-fluoro-2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-12-9P,
[2-(2-Bromophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-13-0P, (5,7-Difluoro-1H-indazol-3-vl)[2-(5-fluoro-2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-14-1P,
[2-(2,4-Dichlorophenyl)quinazolin-4-yl](5,7-Difluoro-1H-indazol-3-yl)amine
404827-15-2P, [2-(2-Chloro-5-trifluoromethylphenyl)quinazolin-4-yl] (5,7-
Difluoro-1H-indazol-3-yl)amine 404827-16-3P,
(4-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
vl]amine 404827-18-5P 404827-20-9P,
(5-Fluoro-1H-indazol-3-yl) [8-methoxy-2-(2-trifluoromethylphenyl)quinazolin-
4-y1]amine trifluoroacetate 404827-21-0P 404827-23-2P,
(5,7-Difluoro-1H-indazol-3-v1)[8-methoxv-2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine trifluoroacetate
404827-24-3P, [2-(2-Chloropyridin-3-yl)quinazolin-4-yl](5,7-Difluoro-1H-
                    404827-26-5P,
indazol-3-v1)amine
[2-(4-Amino-2-chlorophenyl)quinazolin-4-y1](5,7-Difluoro-1H-indazol-3-
         404827-27-6P, (4,5,6,7-Tetrahydro-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-28-7P,
(1H-Pyrazolo (4.3-b)pyridin-3-yl) (2-(2-trifluoromethylphenyl) guinazolin-4-
v1]amine 404827-29-8P, (1H-Pyrazolo[3,4-b]pyridin-3-y1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-30-1P.
(6-Methyl-1H-pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-31-2P.
(6-0xo-5-phenv1-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-v1)-[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-32-3P,
[6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-
            404827-33-4P,
3-y1)amine
(5-Furan-2-v1-2H-pvrazo1-3-v1)[6-methv1-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-yl]amine 404827-34-5P,
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
v1) amine 404827-35-6P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-y1](5-
methyl-2H-pyrazol-3-yl)amine 404827-36-7P 404827-37-8P,
(1H-Indazol-3-yl) [2-(2-trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-
         404827-38-9P, (5,7-Difluoro-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-yl]amine 404827-40-3P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate)
                      404827-41-4P,
(5-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine 404827-42-5P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-
indazol-3-yl)amine 404827-43-6P,
(1H-Indazo1-3-y1)[2-(2-trifluoromethylpheny1)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine 404827-44-7P,
(7-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine 404827-45-8P,
(5,7-Difluoro-1H-indazol-3-vl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine 404827-46-9P,
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[2-(2-Chlorophenvl)-6.7-dihvdro-5H-cvclopentapvrimidin-4-vl](1H-indazol-3-
yl) amine 404827-47-0P, [2-(2-Chlorophenyl)-6,7-dihydro-5H-
cvclopentapyrimidin-4-vl](7-fluoro-1H-indazol-3-vl)amine 404827-48-1P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-
1H-indazol-3-vl)amine 404827-49-2P,
(1H-Indazol-3-yl) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vllamine
                                        404827-50-5P.
(7-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vllamine
                                        404827-51-6P.
(5,7-Difluoro-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine
                                        404827-52-7P.
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
          404827-53-89,
vl)amine
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
           404827-54-9P, (6-Fluoro-1H-indazol-3-v1)[2-(2-
3-v1)amine
trifluoromethylphenyl)guinazolin-4-yllamine
                                            404827-55-0P.
3-[[2-(2-Trifluoromethylphenyl)quinazolin-4-yl]amino]-1H-indazole-5-
carboxylic acid methyl ester 404827-56-1P,
(5-Methyl-2H-pyrazol-3-v1)[2-(2-naphthyl-1-v1)guinazolin-4-v1]amine
404827-58-3P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-y1](7-fluoro-1H-
indazol-3-vl)amine bis(trifluoroacetate) 404827-62-9P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                                404827-64-1P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
                                404827-67-4P,
vl)amine bis(trifluoroacetate)
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate)
                       404827-70-9P.
[2-(2-Chlorophenv1)pyrido[3,4-d]pyrimidin-4-v1](7-fluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate) 404827-72-1P,
[2-(2-Chlorophenv1)pvrido[3,4-d]pvrimidin-4-v1](5-fluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate) 404827-74-3P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate) 404828-07-5P,
(1H-Indazol-3-yl) (2-phenylquinazolin-4-yl)amine
                                                404828-08-6P,
(5-Methyl-2H-pyrazol-3-yl) (2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
          404828-09-7P, (5-Methyl-2H-pyrazol-3-yl)(2-phenyl-6,7,8,9-
tetrahydro-5H-cycloheptapyrimidin-4-vl)amine
                                             404828-10-0P,
(5-Methyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)-amine
404828-11-1P, (7-Chloro-2-pyridin-4-ylquinazolin-4-yl)(5-methyl-2H-pyrazol-
3-y1)amine
            404828-12-2P, (6-Chloro-2-pyridin-4-ylquinazolin-4-yl) (5-
methyl-2H-pyrazol-3-v1)amine
                             404828-13-3P,
(2-Cyclohexylquinazolin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404828-14-4P, (5-Methyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-15-5P, [2-(4-Iodophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404828-16-6P, [2-(4-Chlorophenyl)quinazolin-4-yl](5-methyl-2H-
pyrazol-3-vl)amine 404828-17-7P,
[2-(3,5-Dichlorophenyl)quinazolin-4-yl](5-methyl-2H-pvrazol-3-vl)amine
404828-18-8P, [2-(4-Cyanophenyl)quinazolin-4-vl](5-methyl-2H-pyrazol-3-
          404828-19-9P, [2-(3-Iodophenyl)quinazolin-4-yl](5-methyl-2H-
pvrazol-3-vl)amine
                   404828-20-2P,
[2-(4-Ethylsulfanylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-21-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
vl)amine
          404828-22-4P, [2-(4-tert-Butylphenyl)quinazolin-4-yl](5-methyl-
                       404828-23-5P.
2H-pyrazol-3-vl)amine
[2-(4-Chlorophenyl)quinazolin-4-yl](5-cyclopropyl-2H-pyrazol-3-yl)amine
404828-24-6P, (2-Benzo[1,3]dioxol-5-ylquinazolin-4-y1)(5-methyl-2H-pyrazol-
3-v1) amine 404828-25-7P, [2-(4-Dimethylaminophenyl) quinazolin-4-v1] (5-
methyl-2H-pyrazol-3-yl)amine
                             404828-26-8P,
[2-(3-Methoxyphenyl)guinazolin-4-v1](5-methyl-2H-pyrazol-3-v1)amine
404828-27-9P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-
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dichlorophenvl)quinazolin-4-vllamine
                                     404828-28-0P,
[2-(3-Ethynylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-29-1P, [2-(3-Methylphenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-
yl)amine
         404828-31-5P, [2-(3,5-Difluorophenyl)quinazolin-4-yl](5-methyl-
2H-pvrazol-3-vl)amine 404828-32-6P,
[2-(3-Chloro-4-fluorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-34-8P, (5-Methyl-2H-pyrazol-3-v1)[2-(3-
trifluoromethylphenyl)quinazolin-4-yllamine 404828-35-9P,
[2-(3-Cvanophenv1)quinazolin-4-v1](5-methv1-2H-pvrazol-3-v1)amine
404828-36-0P, [2-(3-Isopropylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
          404828-37-1P, (5-Methyl-2H-pyrazol-3-yl)(2-pyridin-3-
                        404828-38-2P,
vlguinazolin-4-vl)amine
[2-(3-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-39-3P, [2-(3,5-Bis(trifluoromethyl)phenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404828-40-6P,
[2-(3-Hydroxymethylphenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404828-41-7P, (5-Methyl-2H-pyrazol-3-yl) [2-(3-phenoxyphenyl) quinazolin-4-
yl]amine 404828-42-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3-
phenoxyphenv1)guinazolin-4-v1|amine 404828-43-9P 404828-44-0P,
(2-Phenylquinazolin-4-yl) (2H-pyrazol-3-yl)amine
                                                404828-45-1P.
(2H-Pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)amine 404828-46-2P,
(5-Ethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-47-3P,
(2-Phenylquinazolin-4-vl)(5-propyl-2H-pyrazol-3-vl)amine
                                                          404828-48-4P.
(5-Isopropyl-2H-pyrazol-3-yl) (2-phenylquinazolin-4-yl) amine
404828-49-5P, (5-tert-Butyl-2H-pyrazol-3-yl)(2-phenylguinazolin-4-yl)amine
404828-50-8P, (5-tert-Buty1-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-
vl)amine
          404828-51-9P, (5-Cyclopentyl-2H-pyrazol-3-yl)(2-
phenylquinazolin-4-vl)amine
                            404828-52-0P,
(5-Phenyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-53-1P,
(5-Carboxy-2H-pyrazol-3-v1)(2-phenylquinazolin-4-v1)amine 404828-55-3P,
(5-Hydroxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-56-4P, (5-Methoxymethyl-2H-pyrazol-3-yl)(2-phenylguinazolin-4-
v1) amine 404828-57-5P, [5-(3-Hydroxypropy1)-2H-pyrazol-3-y1](2-
phenylguinazolin-4-vl)amine
                            404828-59-7P.
[5-(3-Methoxypropyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
404828-60-0P, [5-(3-Aminopropyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
vl)amine
          404828-62-2P, (5-Isopropylcarbamov1-2H-pyrazo1-3-y1)(2-
                             404828-63-3P,
phenylquinazolin-4-yl)amine
(5-Allylcarbamoy1-2H-pyrazo1-3-y1)(2-phenylquinazolin-4-y1)amine
404828-64-4P, [5-(2-Methoxyethylcarbamoy1)-2H-pyrazol-3-y1](2-
phenylguinazolin-4-vl)amine
                             404828-65-5P,
(5-Benzylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-66-6P, (5-Cyclohexylcarbamoyl-2H-pyrazol-3-yl)(2-phenylguinazolin-4-
         404828-67-7P, (5-Diethylcarbamoyl-2H-pyrazol-3-yl)(2-
vl)amine
phenylguinazolin-4-vl)amine 404828-68-8P.
[5-(Benzylmethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
404828-69-9P, (2-Phenylquinazolin-4-v1)(5-propylcarbamoyl-2H-pyrazol-3-
yl)amine 404828-70-2P, [5-(Ethylisopropylcarbamoyl)-2H-pyrazol-3-yl](2-
phenylquinazolin-4-yl)amine
                            404828-71-3P,
(5-Cvclopropvlcarbamov1-2H-pvrazo1-3-v1)(2-phenvlquinazolin-4-v1)amine
404828-72-4P, (5-Isobutylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
vl)amine
          404828-73-5P, [5-((3S)-3-Methoxymethylpyrrolidine-1-carbonyl)-
2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine 404828-74-6P,
(2-Phenylquinazolin-4-vl)(5-m-tolylcarbamoy1-2H-pyrazol-3-vl)amine
404828-75-7P, (2-Phenylquinazolin-4-yl)(5-p-tolylcarbamoyl-2H-pyrazol-3-
          404828-76-8P, (5-Methylcarbamoyl-2H-pyrazol-3-yl)(2-
vl)amine
phenylguinazolin-4-vl)amine 404828-77-9P,
[5-(Morpholine-4-carbony1)-2H-pyrazol-3-y1](2-phenylquinazolin-4-y1)amine
404828-78-0P, [5-(1-Methylpiperazine-4-carbonyl)-2H-pyrazol-3-yl](2-
phenylquinazolin-4-yl)amine 404828-79-1P,
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[5-(2-Hvdroxvethvlcarbamovl)-2H-pvrazol-3-vl](2-phenvlquinazolin-4-
    yl)amine 404828-80-4P, (5-Carbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-
                 404828-82-6P, (4-Bromo-2H-pvrazol-3-v1)(2-phenvlquinazolin-4-
    4-vl)amine
    yl)amine
               404828-83-7P, (4-Bromo-5-methyl-2H-pyrazol-3-yl)(2-
    phenylquinazolin-4-yl)amine 404828-84-8P,
     (4-Cyano-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-85-9P,
     (5-Methyl-2H-pyrazol-3-yl) (2-morpholin-4-ylquinazolin-4-yl) amine
     404828-86-0P, (5-Methyl-2H-pyrazol-3-yl)(2-piperazin-1-ylquinazolin-4-
               404828-87-1P, [2-(4-Methylpiperidin-1-v1)quinazolin-4-v1](5-
    methy1-2H-pyrazo1-3-y1)amine
                                  404828-88-2P
, [2-(4-Methylpiperazin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
     404828-89-3P, (5-Methyl-2H-pyrazol-3-yl)(2-piperidin-1-ylquinazolin-4-
               404828-90-6P, [2-(Azepan-1-yl)quinazolin-4-yl](5-methyl-2H-
    vl)amine
    pvrazol-3-vl)amine
                         404828-91-7P.
     [2-[4-(2-Hydroxyethyl)piperidin-1-yl]quinazolin-4-yl](5-methyl-2H-pyrazol-
                 404828-92-8P, (5-Cyclopropyl-2H-pyrazol-3-v1)[2-(4-
    methylpiperidin-1-yl)quinazolin-4-yl]amine 404828-94-0P,
     [2-(1,4-Dioxa-8-azaspiro[4.5]dec-8-y1)quinazolin-4-y1](5-methyl-2H-pyrazol-
                404828-95-1P, [2-(4-Cyclopentylaminopiperidin-1-y1)quinazolin-
    3-v1)amine
    4-v1](5-methyl-2H-pyrazol-3-v1)amine
                                          404828-96-2P,
     [2-(4-Hydroxypiperidin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
               404828-97-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-hydroxy-4-
    phenylpiperidin-1-yl)quinazolin-4-yllamine 404828-98-4P.
    (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(1,3-dihydroisoindol-2-yl)quinazolin-4-
               404828-99-5P, [2-(Azepan-1-v1)quinazolin-4-v1](5-cvclopropv1-2H-
    vllamine
    pyrazol-3-v1)amine
                         404829-00-1P,
    (5-Cyclopropyl-2H-pyrazol-3-y1)[2-(3,4-dihydro-1H-isoquinolin-2-
    vl) guinazolin-4-vl|amine 404829-01-2P,
    (5-Cyclopropy1-2H-pyrazol-3-y1)[2-(2,3-dihydroindol-1-y1)quinazolin-4-
               404829-02-3P, (5-Cvclopropv1-2H-pvrazo1-3-v1)[2-(4-
    hydroxymethylpiperidin-1-yl)quinazolin-4-yl]amine 404829-03-4P,
     (5-Cyclopropy1-2H-pyrazol-3-yl)[2-(3,4-dihydro-2H-quinolin-1-yl)quinazolin-
                 404829-05-6P, 5-(Piperidine-1-carbonyl)-2H-pyrazol-3-yl-[2-
    4-yl]amine
                                            404829-06-7P.
     (piperidine-1-yl)quinazolin-4-yl]amine
     (5-Hydroxymethyl-2H-pyrazol-3-yl)[2-(piperidin-1-yl)quinazolin-4-yl]amine
    404829-07-8P, (5-Carbamoy1-2H-pyrazol-3-yl)[2-(piperidin-1-yl)quinazolin-4-
    vl]amine
              404829-08-9P, (5-Carbamov1-2H-pvrazo1-3-v1)[2-(4-
    methylpiperidin-1-yl)quinazolin-4-yl]amine 404829-09-0P,
    (5,7-Difluoro-1H-indazol-3-y1)(2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
               404829-10-3P, (2-Phenyl-5,6,7,8-tetrahydroguinazolin-4-yl) (5-
    trifluoromethyl-1H-indazol-3-v1)amine 404829-11-4P,
    (7-Fluoro-1H-indazol-3-yl)(2-phenylquinazolin-4-yl)amine
                                                               404829-12-5P,
    (5-Fluoro-1H-indazol-3-vl)(2-phenylguinazolin-4-vl)amine
                                                               404829-13-6P.
    (5,7-Difluoro-1H-indazol-3-yl) (2-phenylquinazolin-4-yl) amine
    404829-14-7P, (1H-Indazol-3-yl)[2-(3-trifluoromethylphenyl)quinazolin-4-
              404829-15-8P, (2-Phenylquinazolin-4-yl)(1H-pyrazolo[4,3-
    vl]amine
    blpvridin-3-v1)amine
                          404829-16-9P.
     [5-(3-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
    phenylquinazolin-4-yl)amine
                                 404829-17-0P,
    (6-Oxo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-(2-
    phenylquinazolin-4-yl)amine 404829-18-1P,
    [5-(4-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
    phenylquinazolin-4-yl)amine 404829-19-2P,
    [5-(2,4-Dichlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-
    yl](2-phenylquinazolin-4-yl)amine
                                       404829-21-6P,
    [6-0xo-5-(3-trifluoromethylphenyl)-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-
    3-v1|(2-phenvlquinazolin-4-v1)amine
    RL: FAC (Pharmacological activity); SPN (Synthetic preparation);
    THU (Therapeutic use); BIOL (Biological study); PREP
    (Preparation); USES (Uses)
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(protein kinase inhibitor; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for <a href="treatment">treatment</a> of cancer, diabetes, and Alzheimer's disease)

ΤT 404829-22-7P, [6-0xo-5-(4-Phenoxyphenyl)-5,6-dihydro-1H-pyrazolo[4,3c]pyridazin-3-y1](2-phenylquinazolin-4-y1)amine 404829-23-8P, [5-(4-Chlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2phenylquinazolin-4-vl)amine 404829-24-9P, (2-Imidazol-1-ylquinazolin-4-yl)(1H-indazol-3-yl)amine 404829-25-0P, (1H-Indazol-3-v1) [2-(2-methylimidazol-1-v1) quinazolin-4-v1]amine 404829-26-1P, (1H-Indazol-3-v1)(2-piperidin-1-vlquinazolin-4-v1)amine 404829-27-2P, (1H-Indazol-3-yl)[2-(octahydroquinolin-1-yl)quinazolin-4-404829-28-3P, (1H-Indazol-3-vl)[2-(2,6-dimethylmorpholin-4vllamine yl)quinazolin-4-yl]amine 404829-29-4P, (5-Methyl-2H-pyrazol-3-yl)(2-phenylpyrimidin-4-yl)amine 404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4v11(5-methy1-2H-pyrazo1-3-v1)amine 404829-32-9P. [2-(4-Methylpiperidin-1-v1)pyrimidin-4-v1](5-methyl-2H-pyrazo1-3-v1)amine 404829-33-0P, [2-(4-Methylpiperidin-1-y1)-5-nitropyrimidin-4-y1](5-methyl-2H-pyrazol-3-vl)amine 404829-34-1P, [5-Amino-2-(4-Methylpiperidin-1-yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-404829-35-2P, [5-Amino-6-methyl-2-(4-methylpiperidin-1yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine 404829-36-3P , [6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3yl)amine 404829-37-49, [2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-2-yl-2H-pyrazol-3-404829-38-5P, vl)amine [5-(Furan-2-y1)-2H-pyrazol-3-y1](6-methy1-2-phenylpyrimidin-4-y1)amine 404829-39-6P 404829-40-9P, (5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4trifluoromethylphenyl)pyrimidin-4-yllamine 404829-41-0P, [2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-methylpyrimidin-4-yl](5-furan-2-yl-2H-pyrazol-3-vl)amine 404829-42-1P, [2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-ethylpyrimidin-4-yl](5-methyl-2Hpvrazol-3-vl)amine 404829-43-2P, (6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine 404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2Hpyrazol-3-vl)amine 404829-45-42, [6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3vl)amine 404829-46-5P, (5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-methy1pheny1)-pyrimidin-4yl]amine 404329-47-6P, (6-Methoxymethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine 404829-48-79, (5,6-Dimethyl-2-phenylpyrimidin-4-v1)(5-methyl-2Hpyrazol-3-yl)amine 404829-49-8P, (6-Methyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine 404829-50-1P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl] (5-methyl-2H-pyrazol-3-vl)amine 404829-51-2P, [2-(4-Chlorophenvl)-6-ethylpyrimidin-4-vl](5-methyl-2H-pyrazol-3-vl)amine 404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-ptolylpyrimidin-4-yl)amine 404829-53-4P, (1H-Indazol-3-yl) (6-methoxymethyl-2-phenylpyrimidin-4-yl) amine 404829-54-5P, (5-Methyl-2H-pyrazol-3-yl)-(2-pyridin-4-ylthieno(3,2d]pyrimidin-4-yl)amine 404829-55-6P, (5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[3,4-d]pyrimidin-4-yl)amine 404829-56-7P, (5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[2,3-d]pyrimidin-4-404829-57-8P, (5-Cyclopropyl-2H-pyrazol-3-v1)-(2phenylpyrido[3,4-d]pyrimidin-4-vl)amine 404829-60-3P, (5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(4-methylpiperidin-1-y1)pyrrolo[3,2d]pvrimidin-4-vllamine 404829-62-5P,

(5-Fluoro-1H-indazol-3-yl)-(2-phenyl-5,6,7,8-tetrahydropyrido[4,3-

```
d]pyrimidin-4-yl)amine 404829-63-6P,
(1H-Indazol-3-yl)[3-(2-trifluoromethylphenyl)isoquinoline-1-yl]amine
404829-65-8P, (5,7-Difluoro-1H-indazol-3-vl)[3-(2-
trifluoromethylphenyl)isoquinolin-1-yl]amine 404829-66-9P,
(1H-Indazol-3-yl) (2-phenylquinolin-4-yl)amine
                                             404829-67-0P,
(2-Phenylquinolin-4-yl) (1H-pyrazolo[4,3-b]pyridin-3-yl) amine
404829-68-1P, (1H-Indazo1-3-y1)[2-(2-trifluoromethylpheny1)quinolin-4-
vl]amine
         404829-69-2P, (5,7-Difluoro-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinolin-4-yllamine
                                          404829-70-5P.
[2-(2-Trifluoromethylphenyl)guinolin-4-yl](1H-pyrazolo[4,3-b]pyridin-3-
vl)amine
          404829-71-6P, (2-Phenylquinazolin-4-yl)(2H-1,2,4-triazol-3-
          404829-72-7P, (5-Methyl-2H-1,2,4-triazol-3-yl)(2-
vl)amine
phenylquinazolin-4-yl)amine
                            404829-73-8P,
(2H-1,2,4-Triazol-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-4-y1]amine
404829-74-9P, (5-Methyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)guinazolin-4-vllamine
                                            404829-75-0P.
(5-Methylsulfanyl-2H-1,2,4-triazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404829-76-1P,
(1H-[1,2,4]Triazol-3-v1)[3-(2-trifluoromethylphenyl)isoquinolin-1-v1]amine
404829-77-2P, (2-Phenylquinolin-4-yl)(1H-1,2,4-triazol-3-yl)amine
404829-78-3P, (1H-[1,2,4]Triazol-3-yl)[2-(2-trifluoromethylphenyl)quinolin-
4-yl]amine
            404829-79-49,
(1H-Indazol-3-v1) (5-methyl-6-morpholin-4-v1-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl|amine
                                          404829-80-7P
                                                          404829-81-8P
              404874-28-8P
                            404874-29-9P 404874-30-2P
                                                         404874-31-3P
404845-75-6P
             404874-33-5P
                                                         404874-36-8P
404874-32-4P
                            404874-34-6P 404874-35-7P
404874-37-9P 404874-38-0P 404874-39-1P 404874-40-4P
                                                          404874-41-5P
404874-42-6P 404874-43-7P
                            404874-44-8P 404874-45-9P
                                                          404874-46-0P
404874-47-1P 404874-48-2P 404874-49-3P 404874-50-6P
                                                          404874-51-7P
404874-52-8P 404874-53-9P 404874-54-0P 404874-55-1P
                                                          404874-56-2P
404874-57-3P 404874-58-4P 404874-59-5P 404874-60-8P 404874-61-9P
404874-62-0P 404874-63-1P 404874-64-2P 404874-65-3P 404874-66-4P
404874-67-5P 404874-68-6P 404874-69-7P 404874-70-0P 404874-71-1P
             404874-73-3P
                            404874-74-4P
                                                         404874-76-6P
404874-72-2P
                                           404874-75-5P
404874-77-7P
              404874-78-8P
                            404874-79-9P 404874-80-2P 404874-81-3P
404874-82-4P 404874-83-5P
RL: FAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
  analogs as protein kinase inhibitors for treatment of cancer,
  diabetes, and Alzheimer's disease)
404827-83-4P, 4-Chloro-6-cvclohexv1-2-(2-
trifluoromethylphenyl)pyrimidine 404827-84-5P,
4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine
404827-86-7P, 4-Chloro-6-(2-chlorophenyl)-2-(2-
trifluoromethylphenyl)pyrimidine
                                 404827-87-89.
4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine
404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-
                 404829-31-8P,
pyrimidin-4-one
(6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (intermediate; preparation of heterocyclylpyrazolamines and analogs as
  protein kinase inhibitors for treatment of cancer, diabetes,
  and Alzheimer's disease)
404827-83-4 HCAPLUS
```

Pyrimidine, 4-chloro-6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA

RN

CN

INDEX NAME)

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- RN 404827-84-5 HCAPLUS
- CN Pyrimidine, 4-chloro-6-phenyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404827-86-7 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

- RN 404827-87-8 HCAPLUS

- RN 404828-02-0 HCAPLUS
- CN 4(3H)-Pyrimidinone, 6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-31-8 HCAPLUS
- CN 4-Pyrimidinamine, 6-chloro-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

404826-28-4P, [2-(2-Chlorophenvl)-5,6-dimethylpyrimidin-4-vl](5-

yl)amine

yl)amine

404827-52-7P,

404827-53-8P,

```
Methyl-2H-pyrazol-3-yl)amine
                             404826-46-6P.
(1H-Indazol-3-yl)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine
404826-47-7P, (1H-Indazol-3-yl)[6-phenyl-2-(2-
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[6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
            404826-51-3P,
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[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
yl)amine 404826-52-4P,
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
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[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
yl](7-fluoro-1H-indazol-3-yl)amine
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(5,7-Difluoro-1H-indazol-3-y1)[5,6-Dimethy1-2-(2-
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trifluoromethylphenyl)pyrimidin-4-yl]amine
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
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yl)amine
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-fluoro-1H-indazol-3-
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vl)amine
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404827-32-3P, [6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-
yl](5-phenyl-2H-pyrazol-3-yl)amine
                                   404827-33-4P.
(5-Furan-2-v1-2H-pvrazo1-3-v1)[6-methv1-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-yl]amine
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[6-Ethvl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-

[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-

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[6-(2-Fluorophenvl)-2-(2-trifluoromethylphenvl)pyrimidin-4-vl](1H-indazol-
3-v1)amine
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404829-37-4P, [2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-
2-y1-2H-pyrazol-3-y1)amine
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[5-(Furan-2-v1)-2H-pyrazol-3-v1](6-methyl-2-phenylpyrimidin-4-v1)amine
404829-39-6P
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(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yllamine 404829-43-2P,
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404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2H-
pyrazol-3-yl)amine 404829-45-4P,
[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
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404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
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404829-50-1P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-
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                       404829-51-2P.
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
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tolvlpvrimidin-4-vl)amine
(1H-Indazol-3-yl) (6-methoxymethyl-2-phenylpyrimidin-4-yl) amine
404829-79-4P, (1H-Indazo1-3-v1)[5-methv1-6-morpholin-4-v1-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
   analogs as protein kinase inhibitors for treatment of cancer,
   diabetes, and Alzheimer's disease)
404826-28-4 HCAPLUS
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RN 4048 CN 4-Pv

4-Pyrimidinamine, 2-(2-chlorophenyl)-5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

RN 404826-46-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-methyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

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CN 1H-Indazol-3-amine, N-[6-phenyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

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CN 1H-Indazol-3-amine, N-[6-(4-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-49-9 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-50-2 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-chloropheny1)-2-[2-(trifluoromethy1)pheny1]-4pyrimidiny1]- (CA INDEX NAME)

RN 404826-51-3 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-52-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5-fluoro (CA INDEX NAME)

RN 404826-53-5 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chloropheny1)-5,6-dimethyl-4-pyrimidinyl]-(CA INDEX NAME)

RN 404826-54-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-7-fluoro- (CA INDEX NAME)

RN 404826-55-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

RN 404826-56-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

RN 404826-57-9 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-7fluoro- (CA INDEX NAME)

- RN 404826-58-0 HCAPLUS
- $\texttt{CN} \qquad \texttt{1H-Indazol-3-amine, N-[2-(2-chloropheny1)-5,6-dimethy1-4-pyrimidiny1]-5-}$

fluoro- (CA INDEX NAME)

- RN 404826-59-1 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2,4-dichloropheny1)-5,6-dimethyl-4-pyrimidiny1](CA INDEX NAME)

- RN 404827-32-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-y1)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-33-4 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-52-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404827-53-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404829-29-4 HCAPLUS
- CN 4-Pyrimidinamine, N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-30-7 HCAPLUS
- CN Acetamide, N-[4-[[6-[(5-methyl-1H-pyrazol-3-y1)amino]-2-phenyl-4pyrimidinyl]thio]phenyl]- (CA INDEX NAME)

- RN 404829-36-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-phenyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-37-4 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6methyl- (CA INDEX NAME)

- RN 404829-38-5 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazol-3-y1]-6-methyl-2-phenyl-(CA INDEX NAME)

RN 404829-39-6 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-40-9 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-43-2 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-44-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-phenyl-N-(5-phenyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

- RN 404829-45-4 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-y1)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-46-5 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 404829-47-6 HCAPLUS
- CN 4-Pyrimidinamine, 6-(methoxymethyl)-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl-(CA INDEX NAME)

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- RN 404829-49-8 HCAPLUS
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- RN 404829-50-1 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)-(CA INDEX NAME)

- RN 404829-51-2 HCAPLUS

RN 404829-52-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)-(CA INDEX NAME)

RN 404829-53-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(methoxymethyl)-2-phenyl-4-pyrimidinyl]- (CA INDEX NAME)

RN 404829-79-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5-methyl-6-(4-morpholinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

13

OS.CITING REF COUNT:

THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

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3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 22 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2002:220578 HCAPLUS Fuil-text

DOCUMENT NUMBER: 136:263164

TITLE: Preparation of triazolamines as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease

INVENTOR(S): Bebbington, David; Knegtel, Ronald; Binch, Haley;

Golec, Julian M. C.; Li, Pan; Charrier, Jean-Damien
PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

CODEN: PIXXD2

SOURCE: PCT Int. Appl., 377 pp.

SOURCE:

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 15 PATENT INFORMATION:

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				2001-26966		20011219 <
				2001-US49139	W	20011219 <
				2001-US50312	W	20011219 <

JP 2002-551562 A3 20011220 <--

JP	2002-559414	A3	20011220	<
US	2001-34019	A3	20011220	<
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US	2003-624800	A3	20030722	<
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JP	2004-366925	A3	20041217	<
ΔH	2006-201396	ΔR	20060404	c

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT MARPAT 136:263164

OTHER SOURCE(S):

Entered STN: 22 Mar 2002 ED

GI

AB Triazolamines I and pyrazolamines II [wherein G = Ring C or Ring D; Ring C = (un) substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4triazinvl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRv; Rx and Rv = independently TR3, or taken together with their intervening atoms form an (un)saturated fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring containing 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)20, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliphatic, (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliphatic), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliphatic), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliphatic group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepared as protein kinase inhibitors, especially as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (heterocyclyl)triazolamines I [wherein Z1 = N or CR9; Z2 = N or CH; R9 is defined above]. Examples include data for approx. 300 invention compds.

CC

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prepared by a variety of synthetic methods and bioassay results for the
inhibition of GSK-β3, Aurora-2, ERK, and Src. For instance, the N-(4-
quinazolinvl)-1H-1.2.4-triazol-3-amine III was prepared and exhibited Ki
values of < 0.1 uM for glycogen synthetase kinase 3B (GSK-3B) and 1.0-20 uM
for Aurora-2.
TCM C07D403-00
28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1
607-68-1P, 2,4-Dichloroquinazoline
                                   41339-17-7P,
5-Nitro-1H-indazol-3-ylamine 61272-71-7P, 5-Bromo-1H-indazol-3-ylamine
61272-72-8P, 5-Fluoro-1H-indazol-3-vlamine 404826-17-1P,
2-(2-Trifluoromethylphenyl)pyrido[2,3-d][1,3]oxazin-4-one
2-(2-Trifluoromethylbenzovlamino)nicotinamide 404826-19-3P,
4-Chloro-2-(3,5-dichlorophenyl)quinazoline 404826-26-2P,
[4-(4-Methylpiperidin-1-v1)pvrimidin-2-v1](5-methyl-2H-pvrazol-3-v1)amine
404827-60-7P, 7-Fluoro-1H-indazol-3-ylamine 404827-65-2P,
5.7-Difluoro-1H-indazol-3-vlamine 404827-75-4P.
6-Fluoro-1H-indazol-3-ylamine 404827-76-5P,
7-Fluoro-6-trifluoromethyl-1H-indazol-3-ylamine
                                                404827-77-6P.
6-Bromo-1H-indazol-3-vlamine 404827-78-7P, 4-Fluoro-1H-indazol-3-vlamine
404827-79-8P, 4-Pyrrol-1-yl-1H-indazol-3-ylamine 404827-80-1P,
4-Chloro-5,6-dimethyl-2-(2-trifluoromethylphenyl)pyrimidine
404827-81-2P, 4-Chloro-2-(2-chlorophenyl)-5,6-dimethylpyrimidine
404827-82-3P, 4-Chloro-6-methyl-2-(2-trifluoromethylphenyl)pyrimidine
404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2-
trifluoromethylphenyl)pyrimidine 404827-84-5P,
4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-85-6P,
4-Chloro-2-(2,4-dichlorophenyl)-5,6-dimethylpyrimidine
404827-86-7P, 4-Chloro-6-(2-chlorophenyl)-2-(2-
trifluoromethylphenyl)pyrimidine 404827-87-89,
4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine
404827-88-9P, 4-Chloro-6-pyridin-2-v1-2-(2-
trifluoromethylphenyl)pyrimidine
                                 404827-89-0P,
6-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3-
              404827-90-3P, 7-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-
dlpvrimidine
5,6,7,8-tetrahydropyrido[3,4-d]pyrimidine
                                          404827-91-4P,
4-Chloro-2-(4-fluoro-2-trifluoromethylphenyl)quinazoline 404827-92-5P,
4-Chloro-2-(2-chloro-5-trifluoromethylphenyl)quinazoline 404827-93-6P,
4-Chloro-2-(2-chloro-4-nitrophenyl)guinazoline 404827-94-7P.
4-Chloro-2-(2-trifluoromethylphenyl)quinazoline 404827-95-8P,
4-Chloro-2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidine
404827-96-9P, 4-Chloro-2-(2-chlorophenyl)-6,7,8,9-tetrahydro-5H-
cycloheptapyrimidine
                     404827-97-0P,
4-Chloro-2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidine
                             404827-98-1P,
4-Chloro-8-methoxy-2-(2-trifluoromethylphenyl)guinazoline 404828-00-8P.
2-(4-Chloroquinazolin-2-yl)benzonitrile
                                        404828-01-9P,
6-Methyl-2-(2-trifluoromethylphenyl)-3H-pyrimidin-4-one
404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-
pyrimidin-4-one
                404828-03-1P, 2-(2-Chloro-5-trifluoromethylphenyl)-3H-
quinazolin-4-one 404828-04-2P, 2-(4-Fluoro-2-trifluoromethylphenyl)-3H-
quinazolin-4-one 404828-05-3P, 2-(4-Nitro-2-chlorophenyl)-3H-quinazolin-
      404828-06-4P, 2-(5-Fluoro-2-trifluoromethylphenyl)-3H-quinazolin-4-
     404828-30-4P, (2-Chloroquinazolin-4-yl)(5-methyl-1H-pyrazol-3-
vl)amine 404829-31-8P,
(6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-59-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (intermediate; preparation of triazolamines, pyrazolamines, and analogs as
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protein kinase inhibitors for treatment of cancer, diabetes,
   and Alzheimer's disease)
404826-28-49, [2-(2-Chlorophenv1)-5,6-dimethylpyrimidin-4-v1](5-
Methyl-2H-pyrazol-3-yl)amine 404826-29-5P,
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](1H-
indazol-3-yl)amine 404826-30-8P,
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydropyrido[3,4-d]pyrimidin-4-y1]amine 404826-31-9P,
[2-(2-Chloropheny1)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-y1](7-
fluoro-1H-indazol-3-yl)amine
                              404826-32-0P,
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](5-
fluoro-1H-indazol-3-vl)amine 404826-33-1P,
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](5,7-
difluoro-1H-indazol-3-yl)amine
                               404826-34-2P.
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-vllamine 404826-35-3P.
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroquinazolin-4-yl]amine 404826-36-4P,
(5,7-Difluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-yl]amine 404826-37-5P,
(5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-yl]amine 404826-38-6P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-
tetrahydro-5H-cycloheptapyrimidin-4-yl]amine
                                             404826-39-7P,
[6-Benzyl-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3-
d]pyrimidin-4-v1](5-fluoro-1H-indazo1-3-v1)amine 404826-40-0P,
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-5H-
cvcloheptapvrimidin-4-vllamine 404826-41-1P,
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-
5H-cvcloheptapvrimidin-4-vllamine 404826-42-2P,
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-
5H-cvcloheptapyrimidin-4-vllamine 404826-43-3P,
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydropyrido[4,3-d]pyrimidin-4-yl]amine
                                            404826-44-4P.
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydroguinazolin-
4-vllamine
            404826-46-6P.
(1H-Indazol-3-v1)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-v1]amine
404826-47-7P, (1H-Indazol-3-yl)[6-phenyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine
                                            404826-48-8P,
(1H-Indazol-3-yl)[6-(pyridin-4-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
vllamine
          404826-49-9P,
(1H-Indazol-3-yl) [6-(pyridin-2-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
vllamine
          404826-50-2P,
[6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-vl)amine
             404826-51-3P,
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
vl)amine
          404826-52-4P.
5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
indazol-3-yl)amine 404826-53-5P,
[2-(2-Chlorophenvl)-5,6-dimethylpyrimidin-4-vl](1H-indazol-3-vl)amine
404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
yl](7-fluoro-1H-indazol-3-yl)amine
                                    404826-55-7P,
(5,7-Difluoro-1H-indazol-3-yl) [5,6-Dimethyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yllamine
                                           404826-56-8P.
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
yl)amine
          404826-57-99,
[2-(2-Chlorophenv1)-5,6-dimethylpyrimidin-4-v1](7-fluoro-1H-indazol-3-
vl)amine
          404826-58-0P.
[2-(2-Chlorophenv1)-5,6-dimethylpvrimidin-4-v1](5-fluoro-1H-indazol-3-
v1) amine 404826-59-1P.
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[2-(2,4-Dichlorophenvl)-5,6-dimethylpyrimidin-4-vl](1H-indazol-3-vl)amine
404826-60-4P, (5-Methyl-2H-pyrazol-3-yl)[2-(2-methylphenyl)quinazolin-4-
         404826-61-5P, [2-(2,4-Difluorophenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine
                      404826-62-6P,
[2-(2,5-Dimethoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404826-63-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404826-64-8P, [2-(2-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-
vl)amine
pvrazol-3-vl)amine
                    404826-65-9P,
[2-(2.6-Dimethylphenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404826-66-0P, [2-(2-Acetylphenyl)guinazolin-4-v1](5-methyl-2H-pyrazol-3-
yl)amine
          404826-67-1P, [2-(2,3-Dimethylphenyl)quinazolin-4-yl](5-methyl-
                      404826-68-2P,
2H-pyrazol-3-v1)amine
(5-Methyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine
          404826-69-3P, [2-(2-Ethylphenyl)quinazolin-4-yl](5-Methyl-2H-
pyrazol-3-v1)amine
                    404826-70-6P,
(2-Biphenyl-2-ylguinazolin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404826-71-7P, [2-(2-Hydroxyphenyl)quinazolin-4-yl](5-Methyl-2H-pyrazol-3-
yl)amine
         404826-72-8P, [2-(2-Ethoxyphenyl)quinazolin-4-yl](5-Methyl-2H-
pvrazol-3-vl)amine 404826-73-9P,
[5-(Thiophen-2-yl)-2H-pyrazol-3-yl][2-(2-trifluoromethylphenyl)quinazolin-
           404826-74-0P, [4-(Thiophen-2-y1)-2H-pyrazo1-3-y1][2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-75-1P,
(4-Phenyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)guinazolin-4-
vl]amine
          404826-76-2P, (5-tert-Butyl-2H-pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                            404826-77-3P.
(5-Phenyl-2H-pyrazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-78-4P, (4,5-Diphenyl-2H-pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vllamine
                                             404826-79-5P,
(4-Carbamoy1-2H-pyrazo1-3-y1)[2-(2-trifluoromethylpheny1)quinazolin-4-
          404826-80-8P, (2H-Pvrazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-81-9P.
(5-Hydroxy-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-82-0P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(2-
                                             404826-83-1P,
trifluoromethylphenyl)quinazolin-4-yl]amine
(5-Methoxymethyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-84-2P, (1H-Indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vl]amine
                                             404826-85-3P,
(4-Chloro-1H-indazol-3-y1) [2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine
           404826-86-4P, (5-Fluoro-1H-indazol-3-v1)[2-(2-
                                             404826-87-5P,
trifluoromethylphenyl)quinazolin-4-yl]amine
(7-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-
yl]amine
          404826-88-6P, (5-Methyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine
                                             404826-89-7P.
[2-(2,6-Dichlorophenyl)quinazolin-4-yl](5-fluoro-1H-indazol-3-yl)amine
404826-90-0P, [2-(2-Chlorophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine
404826-91-1P, (5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine
                                            404826-92-2P.
(4-Trifluoromethyl-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)guinazolin-
4-yl]amine
            404826-93-3P, [2-(2,6-Dichlorophenyl)quinazolin-4-yl](1H-
indazol-3-vl)amine
                    404826-94-4P,
(1H-Indazol-3-yl) [2-(2-methylphenyl) quinazolin-4-yl]amine
(7-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)guinazolin-
4-vl]amine
            404826-96-6P, (6-Trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-98-8P.
(5,7-Difluoro-1H-indazol-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-99-9P, (4-Pyrrol-1-yl-1H-indazol-3-yl)[2-(2-
yl]amine
trifluoromethylphenyl)quinazolin-4-vllamine
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(5-Amino-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404827-01-6P, [2-(2-Chlorophenyl)quinazolin-4-v1](7-fluoro-1H-indazol-3-
yl)amine 404827-02-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-fluoro-1H-
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indazol-3-y1)amine 404827-03-8P,
[2-(2-Chlorophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-04-9P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-trifluoromethyl-1H-
indazol-3-yl)amine 404827-05-0P,
[2-(2-Cyanophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine
                                                          404827-07-2P,
(6-Chloro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404827-08-3P, (7-Fluoro-6-trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-09-4P,
(6-Bromo-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)guinazolin-4-v1]amine
404827-10-7P, [2-(2,4-Bis-trifluoromethylphenyl)guinazolin-4-vl](5,7-
difluoro-1H-indazol-3-y1)amine
                               404827-11-8P.
(5,7-Difluoro-1H-indazol-3-v1)[2-(4-fluoro-2-
                                            404827-12-9P.
trifluoromethylphenyl)quinazolin-4-yl]amine
[2-(2-Bromophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-13-0P, (5,7-Difluoro-1H-indazol-3-vl)[2-(5-fluoro-2-
trifluoromethylphenyl)guinazolin-4-yllamine 404827-14-1P.
[2-(2,4-Dichlorophenyl)quinazolin-4-v1](5,7-Difluoro-1H-indazol-3-v1)amine
404827-15-2P, [2-(2-Chloro-5-trifluoromethylphenyl)quinazolin-4-yl](5,7-
Difluoro-1H-indazol-3-vl)amine 404827-16-3P,
(4-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404827-18-5P
                        404827-20-9P,
(5-Fluoro-1H-indazol-3-yl)[8-methoxy-2-(2-trifluoromethylphenyl)quinazolin-
4-vl]amine trifluoroacetate 404827-21-0P 404827-23-2P.
(5,7-Difluoro-1H-indazol-3-v1)[8-methoxy-2-(2-
trifluoromethylphenyl)guinazolin-4-vllamine trifluoroacetate
404827-24-3P, [2-(2-Chloropyridin-3-yl)quinazolin-4-yl](5,7-Difluoro-1H-
indazo1-3-v1)amine
                    404827-26-5P.
[2-(4-Amino-2-chlorophenyl)quinazolin-4-v1](5,7-Difluoro-1H-indazol-3-
yl)amine 404827-27-6P, (4,5,6,7-Tetrahydro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)guinazolin-4-vllamine
                                            404827-28-7P,
(1H-Pyrazolo[4,3-b]pyridin-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
         404827-29-8P, (1H-Pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-30-1P,
(6-Methyl-1H-pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-31-2P,
(6-0xo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404827-32-3P,
[6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-
3-v1) amine
            404827-33-4P,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(2-
                                             404827-34-5P,
trifluoromethoxyphenyl)pyrimidin-4-vllamine
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
          404827-35-6P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-
methyl-2H-pyrazol-3-yl)amine 404827-36-7P 404827-37-8P,
(1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-
         404827-38-9P, (5,7-Difluoro-1H-indazol-3-v1)[2-(2-
vl]amine
trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-yllamine
[2-(2-Chlorophenv1)pyrido[2,3-d]pyrimidin-4-v1](1H-indazo1-3-v1)amine
bis(trifluoroacetate)
                      404827-41-4P,
(5-Fluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine
                                        404827-42-5P.
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-
indazol-3-vl)amine
                    404827-43-6P,
(1H-Indazol-3-vl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine
                               404827-44-7P,
(7-Fluoro-1H-indazo1-3-y1)[2-(2-trifluoromethylpheny1)-6,7-dihydro-5H-
cvclopentapvrimidin-4-vllamine 404827-45-8P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cvclopentapyrimidin-4-vllamine 404827-46-9P,
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[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-

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v1)amine 404827-47-0P, [2-(2-Chlorophenv1)-6,7-dihvdro-5H-
cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine 404827-48-1P,
[2-(2-Chlorophenvl)-6,7-dihvdro-5H-cyclopentapyrimidin-4-vl](5,7-difluoro-
1H-indazol-3-yl)amine 404827-49-2P,
(1H-Indazol-3-y1)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine
                                       404827-50-5P,
(7-Fluoro-1H-indazol-3-y1)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vl]amine 404827-51-6P,
(5.7-Difluoro-1H-indazol-3-v1)(2-(2-trifluoromethylphenyl)-5.6.7.8.9.10-
hexahydrocyclooctapyrimidin-4-vl]amine
                                        404827-52-7P,
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
          404827-53-8P,
vl)amine
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-vl)amine
            404827-54-9P, (6-Fluoro-1H-indazol-3-yl)[2-(2-
                                            404827-55-0P,
trifluoromethylphenyl)quinazolin-4-yl]amine
3-[[2-(2-Trifluoromethylphenyl)quinazolin-4-yl]amino]-lH-indazole-5-
carboxvlic acid methyl ester 404827-56-1P,
(5-Methyl-2H-pyrazol-3-yl)[2-(2-naphthyl-1-yl)quinazolin-4-yl]amine
404827-58-3P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](7-fluoro-1H-
indazol-3-yl)amine bis(trifluoroacetate)
                                          404827-62-9P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate)
                                404827-64-1P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                                404827-67-4P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate)
                      404827-70-9P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](7-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                               404827-72-1P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate) 404827-74-3P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate) 404828-07-5P,
(1H-Indazol-3-yl)(2-phenylquinazolin-4-yl)amine
                                                404828-08-6P,
(5-Methyl-2H-pyrazol-3-yl)(2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
vl)amine
          404828-09-7P, (5-Methyl-2H-pyrazol-3-yl)(2-phenyl-6,7,8,9-
                                             404828-10-0P.
tetrahydro-5H-cycloheptapyrimidin-4-yl)amine
(5-Methyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)-amine
404828-11-1P, (7-Chloro-2-pyridin-4-ylquinazolin-4-yl) (5-methyl-2H-pyrazol-
3-vl)amine
            404828-12-2P, (6-Chloro-2-pyridin-4-ylquinazolin-4-yl) (5-
                              404828-13-3P,
methyl-2H-pyrazol-3-yl)amine
(2-Cvclohexvlguinazolin-4-vl) (5-methvl-2H-pvrazol-3-vl)amine
404828-14-4P, (5-Methyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-15-5P, [2-(4-Iodophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-16-6P, [2-(4-Chlorophenyl)quinazolin-4-yl](5-methyl-2H-
vl)amine
pyrazol-3-vl)amine 404828-17-7P.
[2-(3,5-Dichlorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-18-8P, [2-(4-Cyanophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-19-9P, [2-(3-Iodophenyl)quinazolin-4-yl](5-methyl-2H-
vl)amine
pyrazol-3-yl)amine
                   404828-20-2P,
[2-(4-Ethylsulfanylphenyl)guinazolin-4-v1](5-methyl-2H-pyrazol-3-v1)amine
404828-21-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
          404828-22-4P, [2-(4-tert-Butylphenyl)quinazolin-4-yl](5-methyl-
vl)amine
2H-pyrazol-3-yl)amine 404828-23-5P,
[2-(4-Chlorophenyl)guinazolin-4-yl](5-cyclopropyl-2H-pyrazol-3-yl)amine
404828-24-6P, (2-Benzo[1,3]dioxol-5-ylquinazolin-4-yl)(5-methyl-2H-pyrazol-
            404828-25-7P, [2-(4-Dimethylaminophenyl)quinazolin-4-v1](5-
3-v1)amine
methv1-2H-pvrazo1-3-v1)amine 404828-26-8P,
[2-(3-Methoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-27-9P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-
dichlorophenyl)quinazolin-4-yl]amine 404828-28-0P,
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[2-(3-Ethynylphenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404828-29-1P, [2-(3-Methylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404828-31-5P, [2-(3,5-Difluorophenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404828-32-6P,
[2-(3-Chloro-4-fluorophenyl)guinazolin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404828-34-8P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404828-35-9P.
[2-(3-Cyanophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-36-0P, [2-(3-Isopropylphenyl)quinazolin-4-v1](5-methyl-2H-pyrazol-3-
          404828-37-1P, (5-Methyl-2H-pyrazol-3-yl)(2-pyridin-3-
vl)amine
ylquinazolin-4-yl)amine
                        404828-38-2P,
[2-(3-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-39-3P, [2-(3,5-Bis(trifluoromethyl)phenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-vl)amine
                       404828-40-6P,
[2-(3-Hydroxymethylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-41-7P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-phenoxyphenyl)guinazolin-4-
         404828-42-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3-
phenoxyphenyl)quinazolin-4-yl]amine 404828-43-9P
                                                   404828-44-0P.
(2-Phenylquinazolin-4-yl)(2H-pyrazol-3-yl)amine 404828-45-1P,
(2H-Pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)amine 404828-46-2P,
(5-Ethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-47-3P,
(2-Phenylquinazolin-4-yl) (5-propyl-2H-pyrazol-3-yl) amine
                                                          404828-48-4P.
(5-Isopropyl-2H-pyrazol-3-yl) (2-phenylquinazolin-4-yl) amine
404828-49-5P, (5-tert-Butyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-50-8P, (5-tert-Butyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-
          404828-51-9P, (5-Cyclopentyl-2H-pyrazol-3-yl)(2-
vl)amine
phenylguinazolin-4-vl)amine
                             404828-52-0P.
(5-Phenyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-53-1P,
(5-Carboxy-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-55-3P,
(5-Hydroxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-56-4P, (5-Methoxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
v1) amine 404828-57-5P, [5-(3-Hydroxypropy1)-2H-pyrazol-3-y1](2-
phenylquinazolin-4-yl)amine 404828-59-7P,
[5-(3-Methoxypropyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
404828-60-0P, [5-(3-Aminopropyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
          404828-62-2P, (5-Isopropylcarbamoyl-2H-pyrazol-3-yl)(2-
phenylquinazolin-4-vl)amine
                             404828-63-3P,
(5-Allylcarbamoy1-2H-pyrazo1-3-y1) (2-phenylquinazolin-4-y1) amine
404828-64-4P, [5-(2-Methoxyethylcarbamov1)-2H-pyrazol-3-v1](2-
phenylquinazolin-4-yl)amine 404828-65-5P,
(5-Benzylcarbamov1-2H-pyrazol-3-y1)(2-phenylquinazolin-4-y1)amine
404828-66-6P, (5-Cyclohexylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
vl)amine
          404828-67-7P, (5-Diethylcarbamov1-2H-pyrazol-3-v1)(2-
phenylquinazolin-4-yl)amine 404828-68-8P,
[5-(Benzylmethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
404828-69-9P, (2-Phenylquinazolin-4-yl)(5-propylcarbamoyl-2H-pyrazol-3-
         404828-70-2P, [5-(Ethylisopropylcarbamov1)-2H-pyrazol-3-y11(2-
phenylquinazolin-4-vl)amine
                            404828-71-3P,
(5-Cyclopropylcarbamoy1-2H-pyrazo1-3-y1) (2-phenylquinazolin-4-y1) amine
404828-72-4P, (5-Isobutylcarbamovl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
          404828-73-5P, [5-((3S)-3-Methoxymethylpyrrolidine-1-carbonyl)-
2H-pyrazol-3-vl1(2-phenylquinazolin-4-vl)amine
                                               404828-74-6P.
(2-Phenylquinazolin-4-yl) (5-m-tolylcarbamoyl-2H-pyrazol-3-yl) amine
404828-75-7P, (2-Phenylquinazolin-4-yl)(5-p-tolylcarbamoyl-2H-pyrazol-3-
vl)amine
          404828-76-8P, (5-Methylcarbamoy1-2H-pyrazo1-3-y1)(2-
phenylquinazolin-4-y1)amine
                             404828-77-9P,
[5-(Morpholine-4-carbonv1)-2H-pvrazol-3-v1](2-phenvlquinazolin-4-v1)amine
404828-78-0P, [5-(1-Methylpiperazine-4-carbonyl)-2H-pyrazol-3-yl](2-
phenylguinazolin-4-vl)amine 404828-79-1P,
[5-(2-Hydroxyethylcarbamoy1)-2H-pyrazol-3-y1](2-phenylquinazolin-4-
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404828-80-4P, (5-Carbamovl-2H-pyrazol-3-vl)(2-phenylquinazolin-
    vl)amine
    4-yl)amine
                 404828-82-6P, (4-Bromo-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
              404828-83-7P, (4-Bromo-5-methyl-2H-pyrazol-3-yl)(2-
    vl)amine
    phenylquinazolin-4-yl)amine 404828-84-8P,
    (4-Cyano-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
                                                             404828-85-9P,
    (5-Methyl-2H-pyrazol-3-yl)(2-morpholin-4-ylquinazolin-4-yl)amine
    404828-86-0P, (5-Methy1-2H-pyrazo1-3-y1)(2-piperazin-1-ylquinazolin-4-
    vl)amine
               404828-87-1P, [2-(4-Methylpiperidin-1-y1)quinazolin-4-y1](5-
    methyl-2H-pyrazol-3-vl)amine
                                   404828-88-2P.
    [2-(4-Methylpiperazin-1-v1)guinazolin-4-v1](5-methyl-2H-pyrazol-3-v1)amine
    404828-89-3P, (5-Methyl-2H-pyrazol-3-yl)(2-piperidin-1-ylquinazolin-4-
               404828-90-6P
, [2-(Azepan-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
    404828-91-7P, [2-[4-(2-Hydroxyethyl)piperidin-1-yl]quinazolin-4-yl](5-
    methyl-2H-pyrazol-3-yl)amine 404828-92-8P,
    (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-methylpiperidin-1-yl)guinazolin-4-
    vllamine
              404828-94-0P, [2-(1,4-Dioxa-8-azaspiro[4.5]dec-8-v1)quinazolin-
    4-y1](5-methyl-2H-pyrazol-3-y1)amine 404828-95-1P,
    [2-(4-Cyclopentylaminopiperidin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-
    3-v1)amine
                404828-96-2P, [2-(4-Hydroxypiperidin-1-yl)quinazolin-4-yl](5-
    methyl-2H-pyrazol-3-yl)amine 404828-97-3P,
    (5-Cyclopropyl-2H-pyrazol-3-yl) [2-(4-hydroxy-4-phenylpiperidin-1-
    vl)guinazolin-4-vllamine
                              404828-98-4P,
    (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(1,3-dihydroisoindol-2-yl)quinazolin-4-
               404828-99-5P, [2-(Azepan-1-v1)guinazolin-4-v1](5-cvclopropv1-2H-
    vllamine
    pyrazol-3-v1)amine
                         404829-00-1P,
    (5-Cyclopropyl-2H-pyrazol-3-y1)[2-(3,4-dihydro-1H-isoquinolin-2-
    vl) quinazolin-4-vl]amine 404829-01-2P,
    (5-Cyclopropy1-2H-pyrazol-3-y1)[2-(2,3-dihydroindol-1-y1)quinazolin-4-
               404829-02-3P, (5-Cvclopropvl-2H-pvrazol-3-vl)[2-(4-
    hydroxymethylpiperidin-1-yl)quinazolin-4-yl]amine 404829-03-4P,
    (5-Cyclopropy1-2H-pyrazol-3-yl)[2-(3,4-dihydro-2H-quinolin-1-yl)quinazolin-
                404829-05-6P, 5-(Piperidine-1-carbonyl)-2H-pyrazol-3-yl-[2-
    4-yl]amine
    (piperidine-1-yl)quinazolin-4-yl]amine
                                            404829-06-7P.
    (5-Hydroxymethyl-2H-pyrazol-3-yl)[2-(piperidin-1-yl)quinazolin-4-yl]amine
    404829-07-8P, (5-Carbamoy1-2H-pyrazol-3-yl)[2-(piperidin-1-yl)quinazolin-4-
    vllamine
              404829-08-9P, (5-Carbamov1-2H-pvrazo1-3-v1)[2-(4-
    methylpiperidin-1-yl)quinazolin-4-yl]amine 404829-09-0P,
    (5,7-Difluoro-1H-indazol-3-y1)(2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
              404829-10-3P, (2-Phenyl-5,6,7,8-tetrahydroquinazolin-4-yl)(5-
    trifluoromethyl-1H-indazol-3-v1)amine 404829-11-4P,
    (7-Fluoro-1H-indazol-3-yl)(2-phenylquinazolin-4-yl)amine
                                                               404829-12-5P,
    (5-Fluoro-1H-indazol-3-vl)(2-phenylguinazolin-4-vl)amine
                                                               404829-13-6P.
    (5,7-Difluoro-1H-indazol-3-yl) (2-phenylquinazolin-4-yl) amine
    404829-14-7P, (1H-Indazol-3-yl)[2-(3-trifluoromethylphenyl)quinazolin-4-
              404829-15-8P, (2-Phenylquinazolin-4-yl)(1H-pyrazolo[4,3-
    vl]amine
    blpvridin-3-v1)amine
                         404829-16-9P.
    [5-(3-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
    phenylquinazolin-4-yl)amine
                                 404829-17-0P,
    (6-0xo-5-phenvl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-vl)-(2-
    phenylquinazolin-4-yl)amine 404829-18-1P,
    [5-(4-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
    phenylquinazolin-4-yl)amine 404829-19-2P,
    [5-(2,4-Dichlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-
    v1](2-phenylquinazolin-4-v1)amine
                                       404829-21-6P,
    [6-Oxo-5-(3-trifluoromethylphenyl)-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-
    3-v1|(2-phenvlquinazolin-4-v1)amine
    RL: FAC (Pharmacological activity); SPN (Synthetic preparation);
    THU (Therapeutic use); BIOL (Biological study); PREP
    (Preparation); USES (Uses)
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(protein kinase inhibitor; preparation of triazolamines, pyrazolamines, and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)
404829-22-7P, [6-0xo-5-(4-Phenoxyphenyl)-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-phenylquinazolin-4-yl)amine 404829-23-8P, [6-0xo-5-6-dihydro-1H-pyrazolo]4,3-c]pyridazin-3-yl](2-phenylquinazolin-4-yl)amine 404829-23-8P, [6-0xo-5-6-dihydro-1H-pyrazolo]4,3-c]pyridazin-3-yll(2-phenylquinazolin-4-yl)amine 404829-23-8P, [6-0xo-5-6-dihydro-1H-pyrazolo]4,3-c]pyridazin-3-yll(2-phenylquinazolin-4-yll)amine 404829-23-8P, [6-0xo-5-6-dihydro-1H-pyrazolo]4,3-c]pyridazin-3-yll(2-0xo-5-6-dihydro-1H-pyrazolo]4,3-c]pyridazin-3-yll(2-0xo-5-6-dihydro-1H-pyrazolo]4,3-c]pyridazin-3-yll(2-0xo-5-6-dihydro-1H-pyraz

[5-(4-Chlorophenyl)-6-oxo-5,6-dlhydro-lH-pyrazolo[4,3-c]pyridazin-3-yl](2-phenylquinazolin-4-yl)amine 404829-24-9p, (2-Imidazol-1-ylquinazolin-4-yl)(IH-indazol-3-yl)amine 404829-25-0P,

(2-imidazo1-1-ylquinazo1in-4-yl)(IH-Indazo1-5-yl)dmine 404029-25-0F (IH-Indazo1-3-yl)[2-(2-methylimidazo1-1-yl)quinazo1in-4-yl]amine 404829-26-1P, (IH-Indazo1-3-yl)(2-piperidin-1-ylquinazo1in-4-yl)amine

404829-27-2P, (H-Indazol-3-yl)[2-(octahydroquinolin-1-yl)quinazolin-4yl)amine 404829-28-3P, (H-Indazol-3-yl)[2-(2,6-dimethylmorpholin-4-

yl)quinazolin-4-yl]amine 404829-29-4P,

ΤT

(5-Methyl-2H-pyrazol-3-yl)(2-phenylpyrimidin-4-yl)amine 404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-

y1](5-methy1-2H-pyrazol-3-y1)amine 404829-32-9P,

[2-(4-Methylpiperidin-1-yl]pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine 404829-33-0P, [2-(4-Methylpiperidin-1-yl)-5-nitropyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine 404829-34-1P,

[5-Amino-2-(4-Methylpiperidin-1-yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine 404829-35-2P, [5-Amino-6-methyl-2-(4-methylpiperidin-1-

y1)pyrimidin-4-y1](5-methy1-2H-pyrazol-3-y1)amine 404829-36-3P

, [6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-yl)amine 404829-37-49,

[2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-2-yl-2H-pyrazol-3-yl)amine 404829-38-5P,

 $\label{eq:continuous} \begin{tabular}{ll} $[5-(Furan-2-y1)-2H-pyrazol-3-y1]$ (6-methyl-2-phenylpyrimidin-4-yl) amine $404829-39-6P$ & 404829-40-9P, \end{tabular}$ 

(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-

trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-41-0P,

[2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-methylpyrimidin-4-yl](5-furan-2-yl-2H-pyrazol-3-yl)amine 404829-42-1P,

[2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine 404829-43-2E, (6-Ethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-pyrazol-3-yl)amine

404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2H-pyrazol-3-yl)amine 404829-45-4P,

[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine 404829-46-5P,

(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-methy1pheny1)-pyrimidin-4-y1]amine 404329-47-6P,

y1]amane <u>404823-4(-5K)</u>, (6-Methoxymethy1-2-pheny1pyrimidin-4-y1)(5-methy1-2H-pyrazol-3-y1)amine 404829-48-7P, (5,6-Dimethy1-2-pheny1pyrimidin-4-y1)(5-methy1-2H-

pyrazol-3-yl)amine 404829-49-8P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-pyrazol-3-yl)amine

404829-50-1P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine 404829-51-2P,

[2-(4-Chloropheny1)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine 404829-52-3F, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-

tolylpyrimidin-4-yl)amine 404829-53-4P,

 $(1H-Indazol-3-yl) \ (6-methoxymethyl-2-phenylpyrimidin-4-yl) amine \\ 404829-54-5P, \ (5-Methyl-2H-pyrazol-3-yl)-(2-pyridin-4-ylthieno[3,2-yl)-(2-ylthieno[3,2-yl)-ylthieno[3,2-ylthieno[$ 

d]pyrimidin-4-yl)amine 404829-55-6P,

(5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[3,4-d]pyrimidin-4-yl)amine 404829-56-7P, (5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[2,3-d]pyrimidin-4-yl)amine 404829-57-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)-(2-

phenylpyrido[3,4-d]pyrimidin-4-yl)amine 404829-60-3P,

(5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(4-methylpiperidin-1-y1)pyrrolo[3,2-d]pyrimidin-4-y1]amine 404829-62-5P,

(5-Fluoro-1H-indazol-3-y1)-(2-phenyl-5,6,7,8-tetrahydropyrido[4,3-tetrahydropyrido])

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d]pyrimidin-4-yl)amine 404829-63-6P,
(1H-Indazol-3-yl)[3-(2-trifluoromethylphenyl)isoquinoline-1-yl]amine
404829-65-8P, (5,7-Difluoro-1H-indazol-3-vl)[3-(2-
trifluoromethylphenyl)isoquinolin-1-yl]amine 404829-66-9P,
(1H-Indazol-3-yl)(2-phenylquinolin-4-yl)amine 404829-67-0P,
(2-Phenylquinolin-4-yl) (1H-pyrazolo[4,3-b]pyridin-3-yl) amine
404829-68-1P, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)quinolin-4-
         404829-69-2P, (5,7-Difluoro-1H-indazo1-3-v1)[2-(2-
vllamine
trifluoromethylphenyl)quinolin-4-yllamine
                                         404829-70-5P.
[2-(2-Trifluoromethylphenyl)guinolin-4-yl](1H-pyrazolo[4,3-b]pyridin-3-
vl)amine
          404829-71-6P, (2-Phenylquinazolin-4-yl)(2H-1,2,4-triazol-3-
          404829-72-7P, (5-Methyl-2H-1,2,4-triazol-3-yl)(2-
vl)amine
phenylquinazolin-4-yl)amine
                            404829-73-8P,
(2H-1,2,4-Triazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-yl]amine
404829-74-9P, (5-Methyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)guinazolin-4-yllamine 404829-75-0P.
(5-Methylsulfanyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404829-76-1P,
(1H-[1,2,4]Triazol-3-v1)[3-(2-trifluoromethylphenyl)isoquinolin-1-v1]amine
404829-77-2P, (2-Phenylquinolin-4-yl)(1H-1,2,4-triazol-3-yl)amine
404829-78-3P, (1H-[1,2,4]Triazol-3-yl)[2-(2-trifluoromethylphenyl)quinolin-
4-yl]amine
            404829-79-49,
(1H-Indazol-3-v1) [5-methyl-6-morpholin-4-v1-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl|amine
                                          404829-80-7P
                                                          404829-81-8P
              404888-97-7P
                            404888-98-8P
                                           404888-99-9P
404845-75-6P
              404889-01-6P
404889-00-5P
                             404889-03-8P
                                          404889-04-9P
                                                         404889-05-0P
404889-06-1P
              404889-07-2P
                            404889-08-3P
                                           404889-09-4P
                                                         404889-10-7P
404889-11-8P
             404889-12-9P
                            404889-13-0P
                                           404889-14-1P
                                                          404889-15-2P
             404889-17-4P
                             404889-18-5P
404889-16-3P
                             404889-22-1P
404889-19-6P
              404889-21-0P
              404889-24-3P
                             404889-25-4P
404889-23-2P
404889-26-5P
              404889-27-6P
                             404889-28-7P
404889-29-8P
              404889-30-1P
                            404889-31-2P
                                          404889-32-3P
                                                         404889-33-4P
                            404889-36-7P
                                                          404889-38-9P
404889-34-5P
             404889-35-6P
                                           404889-37-8P
404889-39-0P
             404889-40-3P
                            404889-41-4P 404889-42-5P
                                                         404889-43-6P
404889-44-7P 404889-45-8P
                            404889-46-9P 404889-47-0P
                                                         404889-48-1P
404889-49-2P 404889-50-5P
                            404889-51-6P 404889-52-7P
                                                         404889-53-8P
404889-54-9P 404889-55-0P
                            404889-56-1P 404889-58-3P
                                                         404889-59-4P
404889-60-7P
             404889-61-8P
                            404889-62-9P
                                          404889-63-0P
                                                          404889-64-1P
             404889-66-3P
404889-65-2P
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                             404889-70-9P
404889-68-5P
             404889-69-6P
                                           404889-71-0P
                             404889-74-3P
404889-72-1P
              404889-73-22
404889-76-5P
              404889-77-6P
                             404889-78-7P
              404889-80-1P
404889-79-8P
                             404889-86-7P
                                           404889-96-9P 404890-01-3P
404890-13-7P
              404890-14-8P
                             404890-15-92
              404890-17-1P
404890-16-0P
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404890-19-3P
              404890-22-8P
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404890-38-6P
              404890-43-3P
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404890-68-2P
              404890-77-3P
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              404890-88-6P
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404891-06-1P
             404891-07-2P
                            404891-08-3P 404891-09-4P
                                                         404891-10-7P
404891-12-9P
             404891-13-0P
                            404891-14-1P 404891-15-2P
                                                         404891-16-3P
404891-17-4P
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                            404891-19-6P
                                          404891-20-9P
                                                         404891-21-0P
404891-23-2P
              404891-24-3P
                            404891-25-4P
                                           404891-26-5P
                                                          404891-28-7P
404891-29-8P
             404891-31-2P
                            404891-32-3P 404891-34-5P
                                                          404891-35-6P
404891-36-7P 404891-38-9P
                            404891-39-0P 404891-41-4P
                                                         404891-42-5P
404891-43-6P 404891-64-1P
                            404891-65-2P 404891-69-6P
                                                         404891-78-7P
404891-79-8P 404891-80-1P
                            404891-81-2P 404891-82-3P
                                                         404891-83-4P
404891-84-5P 404891-85-6P
                            404891-86-7P 404891-87-8P
                                                         404891-88-9P
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404891-89-0P 404891-90-3P 404891-91-4P 404891-92-5P 404892-28-0P RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

TRU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(protein kinase inhibitor; preparation of triazolamines, pyrazolamines, and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2-

trifluoromethylphenyl)pyrimidine 404827-84-5P.

4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-86-7P, 4-Chloro-6-(2-chloropheny1)-2-(2-

trifluoromethylphenyl)pyrimidine

404827-87-8P,

4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine

404828-02-09, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-

pyrimidin-4-one 404829-31-8P,

(6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of triazolamines, pyrazolamines, and analogs as protein kinase inhibitors for treatment of cancer, diabetes,

and Alzheimer's disease)

404827-83-4 HCAPLUS RN

Pyrimidine, 4-chloro-6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA CN INDEX NAME)

- 404827-84-5 HCAPLUS RN
- CN Pyrimidine, 4-chloro-6-phenyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- 404827-86-7 HCAPLUS
- Pyrimidine, 4-chloro-6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

- RN 404827-87-8 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

- RN 404828-02-0 HCAPLUS
- CN 4(3H)-Pyrimidinone, 6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-31-8 HCAPLUS
- CN 4-Pyrimidinamine, 6-chloro-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- IT 404826-28-4P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-Methyl-2H-pyrazol-3-yl)amine 404826-46-6P,
  - (1H-Indazol-3-yl)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-47-7F, (1H-Indazol-3-yl)[6-phenyl-2-(2-
  - trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-48-8P,
  - (1H-Indazol-3-yl)[6-(pyridin-4-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-

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vllamine 404826-49-9P,
(1H-Indazol-3-yl) [6-(pyridin-2-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
vllamine 404826-50-2P,
[6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
            404826-51-3P,
3-vl)amine
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
          404826-52-4P.
vl)amine
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
indazo1-3-y1)amine 404826-53-5P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
vl](7-fluoro-1H-indazol-3-vl)amine
                                   404826-55-7P,
(5,7-Difluoro-1H-indazol-3-yl) [5,6-Dimethyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-56-8P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
          404826-57-9P.
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](7-fluoro-1H-indazol-3-
vl)amine 404826-58-0P.
[2-(2-Chlorophenv1)-5,6-dimethylpvrimidin-4-v1](5-fluoro-1H-indazol-3-
yl)amine 404826-59-1P,
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404827-32-3P, [6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-
vll(5-phenvl-2H-pvrazol-3-vl)amine
                                   404827-33-4P,
(5-Furan-2-v1-2H-pyrazol-3-v1) [6-methyl-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-vllamine
                                             404827-34-52,
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
          404827-52-7P,
vl)amine
[6-Cvclohexvl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
yl)amine 404827-53-8P,
[6-(2-Fluorophenv1)-2-(2-trifluoromethylphenv1)pyrimidin-4-v1](1H-indazol-
3-y1) amine 404829-29-4P,
(5-Methyl-2H-pyrazol-3-yl)(2-phenylpyrimidin-4-yl)amine
404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
v11(5-methv1-2H-pvrazo1-3-v1)amine 404829-36-3P,
[6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-yl)amine
404829-37-4P, [2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-
2-v1-2H-pyrazol-3-v1)amine
                           404829-38-52,
[5-(Furan-2-y1)-2H-pyrazol-3-y1](6-methy1-2-phenylpyrimidin-4-y1)amine
404829-39-6P
              404829-40-99,
(5-Furan-2-y1-2H-pyrazo1-3-y1)[6-methy1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-43-29,
(6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl) (5-phenyl-2H-
pyrazol-3-yl)amine 404829-45-4P,
[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404829-46-5P,
(5-Furan-2-v1-2H-pyrazo1-3-v1)[6-methyl-2-(4-methylphenyl)-pyrimidin-4-
yl]amine 404829-47-6P,
(6-Methoxymethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazol-3-yl)amine 404829-49-8P,
(6-Methyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-50-1P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404829-51-2P,
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
tolylpyrimidin-4-v1)amine 404829-53-4P,
(1H-Indazol-3-yl) (6-methoxymethyl-2-phenylpyrimidin-4-yl) amine
404829-79-4F, (1H-Indazol-3-v1)[5-methv1-6-morpholin-4-v1-2-(2-
trifluoromethylphenyl)pyrimidin-4-yllamine 494888-97-7P
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404889-16-3P	404889-17-4P	404889-18-59
404889-19-6P	404889-21-0P	404889-22-1P
404889-23-2P	404889-24-3P	404889-25-4P
404889-26-5P	404889-27-6P	404889-67-4P
404889-68-5P	404889-72-1P	404889-73-2P
404889-74-3P	404889-76-5P	404889-77-6P
404889-78-7P	404890-14-8P	404890-15-9P
404890-16-0P	404890-17-1P	404890-18-2P
404890-19-32	404890-22-8P	404890-28-4P
404890-38-6P	404890-43-39	404890-56-89
404890-68-2P	404890-77-3P	404890-86-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(protein kinase inhibitor; preparation of triazolamines, pyrazolamines, and analogs as protein kinase inhibitors for  $\frac{\text{treatment}}{\text{treatment}}$  of cancer,

diabetes, and Alzheimer's disease) RN 404826-28-4 HCAPLUS

CN 4-Pyrimidinamine, 2-(2-chlorophenyl)-5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

- RN 404826-46-6 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-methyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-47-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-phenyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-48-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(4-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-49-9 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-50-2 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-51-3 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404826-52-4 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5-fluoro- (CA INDEX NAME)

- RN 404826-53-5 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-(CA INDEX NAME)

- RN 404826-54-6 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-7-fluoro- (CA INDEX NAME)

- RN 404826-55-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5,7-difluoro (CA INDEX NAME)

RN 404826-56-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

RN 404826-57-9 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-7fluoro- (CA INDEX NAME)

RN 404826-58-0 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2-chloropheny1)-5,6-dimethyl-4-pyrimidinyl]-5fluoro- (CA INDEX NAME)

RN 404826-59-1 HCAPLUS

CN 1H-Indazol-3-amine, N-[2-(2,4-dichloropheny1)-5,6-dimethyl-4-pyrimidinyl]- (CA INDEX NAME)

RN 404827-32-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-y1)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 404827-33-4 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 404827-34-5 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-y1)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 404827-52-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]-4-

pyrimidinyl]- (CA INDEX NAME)

RN 404827-53-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404829-29-4 HCAPLUS

CN 4-Pyrimidinamine, N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-30-7 HCAPLUS

CN Acetamide, N-[4-[[6-[(5-methyl-1H-pyrazol-3-yl)amino]-2-phenyl-4pyrimidinyl]thio]phenyl]- (CA INDEX NAME)

- RN 404829-36-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-phenyl-1H-pyrazol-3-yl)-(CA INDEX NAME)

- RN 404829-37-4 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl- (CA INDEX NAME)

- RN 404829-38-5 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazol-3-y1]-6-methyl-2-phenyl-(CA INDEX NAME)

- RN 404829-39-6 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-40-9 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-43-2 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-44-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-2-phenyl-N-(5-phenyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

- RN 404829-45-4 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-[4-

(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-46-5 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 404829-47-6 HCAPLUS

CN 4-Pyrimidinamine, 6-(methoxymethyl)-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl-(CA INDEX NAME)

RN 404829-48-7 HCAPLUS

CN 4-Pyrimidinamine, 5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-49-8 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-50-1 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-51-2 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-(CA INDEX NAME)

- RN 404829-52-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

RN 404829-53-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(methoxymethyl)-2-phenyl-4-pyrimidinyl]- (CA INDEX NAME)

RN 404829-79-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5-methyl-6-(4-morpholinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404888-97-7 HCAPLUS

CN 4-Pyrimidinamine, 2-(2-chloropheny1)-5,6-dimethy1-N-(3-methy1-1H-1,2,4-triazo1-5-y1)- (CA INDEX NAME)

RN 404889-16-3 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(3-methyl-1H-1,2,4-triazol-5-yl)-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404889-17-4 HCAPLUS

CN 4-Pyrimidinamine, N-(3-methyl-1H-1,2,4-triazol-5-yl)-6-phenyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404889-18-5 HCAPLUS

CN 4-Pyrimidinamine, N-(3-methyl-1H-1,2,4-triazol-5-yl)-6-(4-pyridinyl)-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404889-19-6 HCAPLUS

CN 4-Pyrimidinamine, N-(3-methyl-1H-1,2,4-triazol-5-yl)-6-(2-pyridinyl)-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404889-21-0 HCAPLUS
- CN 4-Pyrimidinamine, 6-(2-chlorophenyl)-N-(3-methyl-1H-1,2,4-triazol-5-yl)-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404889-22-1 HCAPLUS
- CN 4-Pyrimidinamine, 5,6-dimethyl-N-(3-methyl-1H-1,2,4-triazol-5-yl)-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404889-23-2 HCAPLUS
- CN 4-Pyrimidinamine, 5,6-dimethyl-N-[3-(1-methylethyl)-1H-1,2,4-triazol-5-yl]-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404889-24-3 HCAPLUS
- CN 4-Pyrimidinamine, 2-(2-chlorophenyl)-5,6-dimethyl-N-[3-(1-methylethyl)-1H-1,2,4-triazol-5-yl]- (CA INDEX NAME)

RN 404889-25-4 HCAPLUS

CN Benzonitrile, 2-[4,5-dimethyl-6-[[3-(1-methylethyl)-1H-1,2,4-triazol-5yl]amino]-2-pyrimidinyl]- (CA INDEX NAME)

RN 404889-26-5 HCAPLUS

CN 4-Pyrimidinamine, 2-(2-chloro-4-fluorophenyl)-5,6-dimethyl-N-[3-(1-methylethyl)-1H-1,2,4-triazol-5-yl]- (CA INDEX NAME)

RN 404889-27-6 HCAPLUS

CN 4-Pyrimidinamine, N-(3-cyclopentyl-1H-1,2,4-triazol-5-yl)-2-(2,4-dichlorophenyl)-5,6-dimethyl- (CA INDEX NAME)

RN 404889-67-4 HCAPLUS

CN 4-Pyrimidinamine, 6-cyclohexyl-N-(3-cyclopropyl-1H-1,2,4-triazol-5-yl)-2-|2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404889-68-5 HCAPLUS

CN 4-Pyrimidinamine, N-(3-cyclopropyl-1H-1,2,4-triazol-5-yl)-6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404889-72-1 HCAPLUS

CN 4-Pyrimidinamine, 6-(4-aminocyclohexyl)-5-methyl-N-(3-methyl-1H-1,2,4-triazol-5-yl)-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404889-73-2 HCAPLUS

 $\begin{tabular}{ll} {\tt CN} & Acetamide, & N-[4-[5-methyl-6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]cyclohexyl]- & (CA INDEX NAME) \\ \end{tabular}$ 

- RN 404889-74-3 HCAPLUS
- CN Methanesulfonamide, N-[4-[2-(2-chlorophenyl)-5-methyl-6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-4-pyrimidinyl]cyclohexyl]- (CA INDEX NAME)

- RN 404889-76-5 HCAPLUS
- CN 4-Pyrimidinamine, 2-(2-chlorophenyl)-5-methyl-N-(3-methyl-1H-1,2,4-triazol-5-yl)-6-(4-morpholinyl)- (CA INDEX NAME)

- RN 404889-77-6 HCAPLUS
- CN 4-Pyrimidinamine, 2-(2-chlorophenyl)-5-methyl-N-(3-methyl-1H-1,2,4-triazol-5-yl)-6-(1-piperazinyl)- (CA INDEX NAME)

- RN 404889-78-7 HCAPLUS
- CN Ethanone, 1-[4-[5-methyl-6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-1-piperazinyl]- (CA INDEX NAME)

RN 404890-14-8 HCAPLUS

CN Acetamide, N-[2-[6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]cyclohexyl]- (CA INDEX NAME)

RN 404890-15-9 HCAPLUS

CN Methanesulfonamide, N-[2-[6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]cyclohexyl]- (CA INDEX NAME)

RN 404890-16-0 HCAPLUS

CN 4-Pyrimidinamine, 6-(2-aminocyclohexyl)-N-(3-methyl-1H-1,2,4-triazol-5-yl)-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404890-17-1 HCAPLUS

CN Carbamic acid, [2-[6-[(5-methyl-1H-1,2,4-triazol-3-y1)amino]-2-[2-(trifluoromethyl)phenyl)-4-pyrimidinyl]ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

RN 404890-18-2 HCAPLUS

CN 4-Pyrimidineethanamine, 6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404890-19-3 HCAPLUS

CN 4-Pyrimidinamine, N-(3-methyl-1H-1,2,4-triazol-5-yl)-6-(4-piperidinyl)-2- [2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404890-22-8 HCAPLUS

CN Acetamide, N-[2-[6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]ethyl]- (CA INDEX NAME)

RN 404890-28-4 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-2-[2-(triflooromethyl)phenyl]-4-pyrimidinyl]-, phenylmethyl ester (CA INDEX NAME)

RN 404890-38-6 HCAPLUS

CN Ethanone, 1-[4-[6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]-1-piperidinyl]- (CA INDEX NAME)

RN 404890-43-3 HCAPLUS

CN Methanesulfonamide, N-[2-[2-(2-chlorophenyl)-6-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-4-pyrimidinyl]ethyl]- (CA INDEX NAME)

RN 404890-56-8 HCAPLUS

CN Ethanone, 1-[2-[2-(2-chloropheny1)-6-[(3-methy1-1H-1,2,4-triazo1-5y1)amino]-4-pyrimidiny1]-1-piperidiny1]- (CA INDEX NAME)

RN 404890-68-2 HCAPLUS

CN 4-Pyrimidinamine, 2-(2-chlorophenyl)-6-[1-(methylsulfonyl)-2-piperidinyl]-N-(3-methyl-1H-1,2,4-triazol-5-yl)- (CA INDEX NAME)

RN 404890-77-3 HCAPLUS

CN 4,6-Pyrimidinediamine, 2-(2-chloropheny1)-N4-(3-methy1-1H-1,2,4-triazol-5-y1)-N6-(pheny1methy1)- (CA INDEX NAME)

RN 404890-86-4 HCAPLUS

CN Acetamide, N-[4-[(3-methyl-1H-1,2,4-triazol-5-yl)amino]-2-[2-(trifluoromethyl)phenyl]-5-pyrimidinyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS

RECORD (16 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 23 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2002:220577 HCAPLUS Full-text

DOCUMENT NUMBER: 2002:22057

TITLE: Preparation of pyrazolamines and analogs as protein

kinase inhibitors for treatment of cancer, diabetes,

and Alzheimer's disease

INVENTOR(S): Knegtel, Ronald; Bebbington, David; Binch, Hayley;
Golec, Julian; Patel, Sanjay; Charrier, Jean-Damien;

Kay, David; Davies, Robert; Li, Pan; Wannamaker,

Marion; Forster, Cornelia; Pierce, Albert Vertex Pharmaceuticals Incorporated, USA

PATENT ASSIGNEE(S): Vertex Pharmaceuticals SOURCE: PCT Int. Appl., 376 pp.

SOURCE: PCT Int. Appl CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

LANGUAGE: English FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

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US	2001-26966	A1	20011219	<
WO	2001-US49139	W	20011219	<
WO	2001-US50312	W	20011219	<
JP	2002-551562	А3	20011220	<
JP	2002-559414	A3	20011220	<
US	2001-34019	А3	20011220	<
US	2001-34683	A1	20011220	<
IN	2003-KN795	АЗ	20030619	<
US	2003-624800	АЗ	20030722	<
US	2004-775699	A1	20040210	<
JP	2004-366925	A3	20041217	<
AU	2006-201396	A3	20060404	<

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 136:247579

OTHER SOURCE(S): MARPA ED Entered STN: 22 Mar 2002

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AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; 21 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with the

intervening atoms form an (un)saturated fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring containing 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)20, C(R6)250-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliphatic, (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliphatic), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliphatic), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliphatic group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepared as protein kinase inhibitors, especially as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover pyrimidinyl- and pyridinyl- pyrazolamines and indazolamines I [wherein Z1 = N. CRa, or CH; Z2 = N or CH; and at least one of Z1 or Z2 = N; Z3 = CRx; Z4 = CRy; Ra = halo, OR, COR, CO2R, COCOR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, etc.; R and R4 are defined abovel. Examples include data for approx. 300 invention compds. prepared by a variety of synthetic methods and bioassay results for the inhibition of GSK-63. Aurora-2. ERK, and Src. For instance, the N-(4-pyrimidinyl)-3-pyrazolamine II was prepared and exhibited Ki values of < 0.1  $\mu$ M for glycogen synthetase kinase 3 $\beta$  (GSK-3 $\beta$ ) and 0.1-1.0 uM for Aurora-2. ICM C07D401-14 ICS A61K031-4427; A61K031-4155; A61P035-00; C07D401-12 28-8 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1 41339-17-7P, 5-Nitro-1H-indazol-3-vlamine 61272-71-7P, 5-Bromo-1H-indazol-3-vlamine

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CC

607-68-1P, 2,4-Dichloroguinazoline 61272-72-8P, 5-Fluoro-1H-indazol-3-vlamine 404826-17-1P, 2-(2-Trifluoromethylphenyl)pyrido[2,3-d][1,3]oxazin-4-one 404826-18-2P. 2-(2-Trifluoromethylbenzovlamino)nicotinamide 404826-19-3P. 4-Chloro-2-(3,5-dichlorophenyl)quinazoline 404826-26-2P, [4-(4-Methylpiperidin-1-yl)pyrimidin-2-yl](5-methyl-2H-pyrazol-3-yl)amine 404827-60-7P, 7-Fluoro-1H-indazol-3-vlamine 404827-65-2P, 5.7-Difluoro-1H-indazol-3-vlamine 404827-75-4P. 6-Fluoro-1H-indazol-3-vlamine 404827-76-5P, 7-Fluoro-6-trifluoromethyl-1H-indazol-3-ylamine 404827-77-6P, 6-Bromo-1H-indazol-3-ylamine 404827-78-7P, 4-Fluoro-1H-indazol-3-ylamine 404827-79-8P, 4-Pyrrol-1-yl-1H-indazol-3-ylamine 404827-80-1P, 4-Chloro-5,6-dimethyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-81-2P, 4-Chloro-2-(2-chlorophenyl)-5,6-dimethylpyrimidine 404827-82-3P, 4-Chloro-6-methyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2trifluoromethylphenyl)pyrimidine 404827-84-5P. 4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine 404827-85-6P, 4-Chloro-2-(2, 4-dichlorophenyl)-5,6-dimethylpyrimidine 404827-86-7P, 4-Chloro-6-(2-chlorophenyl)-2-(2trifluoromethylphenyl)pyrimidine 404827-87-8P, 4-Chloro-6-(2-fluorophenvl)-2-(2-trifluoromethylphenvl)pyrimidine 404827-88-9P, 4-Chloro-6-pyridin-2-yl-2-(2trifluoromethylphenyl)pyrimidine 404827-89-0P, 6-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3-404827-90-3P, 7-Benzyl-4-chloro-2-(2-trifluoromethylphenyl)dlpvrimidine 5, 6, 7, 8-tetrahydropyrido[3, 4-d]pyrimidine 404827-91-4P, 4-Chloro-2-(4-fluoro-2-trifluoromethylphenyl)quinazoline 404827-92-5P, 4-Chloro-2-(2-chloro-5-trifluoromethylphenyl)quinazoline 404827-93-6P,

4-Chloro-2-(2-chloro-4-nitrophenyl) quinazoline 404827-94-7P,

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4-Chloro-2-(2-trifluoromethylphenyl)guinazoline 404827-95-8P,
4-Chloro-2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidine
404827-96-9P, 4-Chloro-2-(2-chlorophenv1)-6,7,8,9-tetrahydro-5H-
cycloheptapyrimidine 404827-97-0P,
4-Chloro-2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidine 404827-98-1P,
4-Chloro-8-methoxy-2-(2-trifluoromethylphenyl)quinazoline
                                                          404828-00-8P.
2-(4-Chloroquinazolin-2-vl)benzonitrile 404828-01-9P,
6-Methyl-2-(2-trifluoromethylphenyl)-3H-pyrimidin-4-one
404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-
pyrimidin-4-one
                404828-03-1P, 2-(2-Chloro-5-trifluoromethylphenyl)-3H-
                 404828-04-2P, 2-(4-Fluoro-2-trifluoromethylphenyl)-3H-
guinazolin-4-one
quinazolin-4-one
                  404828-05-3P, 2-(4-Nitro-2-chlorophenyl)-3H-quinazolin-
       404828-06-4P, 2-(5-Fluoro-2-trifluoromethylphenyl)-3H-quinazolin-4-
     404828-30-4P, (2-Chloroguinazolin-4-yl) (5-methyl-1H-pyrazol-3-
          404829-31-89.
(6-Chloro-2-phenylpyrimidin-4-v1)(5-methyl-2H-pyrazol-3-v1)amine
404829-59-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (intermediate; preparation of heterocyclylpyrazolamines and analogs as
  protein kinase inhibitors for treatment of cancer, diabetes,
  and Alzheimer's disease)
404826-28-49, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-
                              404826-29-5P.
Methyl-2H-pyrazol-3-yl)amine
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](1H-
                    404826-30-8P,
indazol-3-yl)amine
(5-Fluoro-1H-indazol-3-vl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydropyrido[3,4-d]pyrimidin-4-yl]amine
                                            404826-31-9P.
[2-(2-Chlorophenv1)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-v1](7-
fluoro-1H-indazol-3-yl)amine 404826-32-0P,
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](5-
fluoro-1H-indazol-3-vl)amine 404826-33-1P,
[2-(2-Chlorophenyl)-6,7,8,9-tetrahydro-5H-cycloheptapyrimidin-4-yl](5,7-
difluoro-1H-indazol-3-vl)amine 404826-34-2P,
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-vl|amine
                                404826-35-3P,
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-vllamine 404826-36-4P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-vllamine 404826-37-5P,
(5-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydroguinazolin-4-vllamine 404826-38-6P.
(5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-
tetrahydro-5H-cycloheptapyrimidin-4-vllamine 404826-39-7P.
[6-Benzyl-2-(2-trifluoromethylphenyl)-5,6,7,8-tetrahydropyrido[4,3-
dlpvrimidin-4-v11(5-fluoro-1H-indazol-3-v1)amine 404826-40-0P.
(1H-Indazol-3-v1)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-5H-
cycloheptapyrimidin-4-yl]amine 404826-41-1P,
(7-Fluoro-1H-indazol-3-vl)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-
5H-cycloheptapyrimidin-4-yl]amine
                                   404826-42-2P,
(5-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7,8,9-tetrahydro-
5H-cycloheptapyrimidin-4-yl]amine
                                  404826-43-3P,
(5-Fluoro-1H-indazol-3-vl)[2-(2-trifluoromethylphenyl)-5,6,7,8-
tetrahydropyrido[4,3-d]pyrimidin-4-yl]amine 404826-44-4P,
(1H-Indazol-3-y1)[2-(2-trifluoromethylpheny1)-5,6,7,8-tetrahydroquinazolin-
4-vllamine
            404826-46-6P,
(1H-Indazol-3-yl)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine
404826-47-7P, (1H-Indazo1-3-v1)[6-phenv1-2-(2-
trifluoromethylphenyl)pyrimidin-4-yllamine
                                           404826-48-8P.
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(1H-Indazol-3-vl)[6-(pvridin-4-vl)-2-(2-trifluoromethylphenyl)pvrimidin-4-
vllamine
          404826-49-9P.
(1H-Indazol-3-vl) (6-(pvridin-2-vl)-2-(2-trifluoromethylphenvl)pvrimidin-4-
yl]amine 404826-50-2P,
[6-(2-Chloropheny1)-2-(2-trifluoromethylpheny1)pyrimidin-4-y1](1H-indazol-
            404826-51-3P,
3-yl)amine
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
vl)amine 404826-52-4P,
[5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-
indazol-3-v1)amine 404826-53-5P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-54-69, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
                                    404826-55-7P.
yl](7-fluoro-1H-indazol-3-yl)amine
(5,7-Difluoro-1H-indazol-3-yl)[5,6-Dimethyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-56-8P,
[2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](5,7-difluoro-1H-indazol-3-
vl)amine
          404826-57-92,
[2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](7-fluoro-1H-indazol-3-
          404826-58-0P,
vl)amine
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-fluoro-1H-indazol-3-
          404826-59-1P,
vl)amine
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404826-60-4P, (5-Methyl-2H-pyrazol-3-yl)[2-(2-methylphenyl)quinazolin-4-
           404826-61-5P, [2-(2,4-Difluorophenyl)quinazolin-4-yl](5-methyl-
vl]amine
2H-pyrazol-3-vl)amine 404826-62-6P,
[2-(2,5-Dimethoxyphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404826-63-7P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404826-64-8P, [2-(2-Methoxyphenyl)quinazolin-4-vl](5-methyl-2H-
vl)amine
pyrazol-3-yl)amine 404826-65-9P,
[2-(2,6-Dimethylphenyl)quinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404826-66-0P, [2-(2-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
         404826-67-1P, [2-(2,3-Dimethylphenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-vl)amine
                      404826-68-2P,
(5-Methyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)guinazolin-4-
vl]amine
          404826-69-3P, [2-(2-Ethylphenyl)quinazolin-4-yl](5-Methyl-2H-
pvrazol-3-vl)amine
                   404826-70-6P.
(2-Biphenv1-2-vlquinazolin-4-vl) (5-methv1-2H-pvrazol-3-vl)amine
404826-71-7P, [2-(2-Hydroxyphenyl)quinazolin-4-yl](5-Methyl-2H-pyrazol-3-
vl)amine
          404826-72-8P, [2-(2-Ethoxyphenyl)quinazolin-4-yl](5-Methyl-2H-
pyrazol-3-yl)amine
                     404826-73-9P,
[5-(Thiophen-2-v1)-2H-pvrazol-3-v1][2-(2-trifluoromethylphenv1)guinazolin-
4-yl]amine 404826-74-0P, [4-(Thiophen-2-yl)-2H-pyrazol-3-yl][2-(2-
trifluoromethylphenyl)guinazolin-4-vllamine
                                            404826-75-1P,
(4-Phenyl-2H-pyrazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
vllamine
          404826-76-2P, (5-tert-Butyl-2H-pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404826-77-3P,
(5-Phenyl-2H-pyrazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-78-4P, (4,5-Diphenyl-2H-pyrazol-3-yl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-79-5P,
(4-Carbamov1-2H-pvrazo1-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-80-8P, (2H-Pyrazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-81-9P.
(5-Hydroxy-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
           404826-82-0P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-83-1P,
(5-Methoxymethyl-2H-pyrazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
          404826-84-2P, (1H-Indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                             404826-85-3P,
(4-Chloro-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)quinazolin-4-
         404826-86-4P, (5-Fluoro-1H-indazol-3-yl)[2-(2-
vllamine
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trifluoromethylphenyl)guinazolin-4-vllamine 404826-87-5P,
(7-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
               404826-88-6P, (5-Methyl-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-89-7P,
[2-(2,6-Dichlorophenyl)quinazolin-4-yl](5-fluoro-1H-indazol-3-yl)amine
404826-90-0P, [2-(2-Chlorophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine
404826-91-1P, (5-Trifluoromethyl-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine 404826-92-2P,
(4-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)guinazolin-
                   404826-93-3P, [2-(2,6-Dichlorophenvl)quinazolin-4-vl](1H-
indazol-3-vl)amine
                               404826-94-4P.
(1H-Indazol-3-v1) (2-(2-methylphenyl) quinazolin-4-vl]amine
(7-Trifluoromethyl-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-
                   404826-96-6P, (6-Trifluoromethyl-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404826-98-8P,
(5.7-Difluoro-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)quinazolin-4-
vl]amine 404826-99-9P, (4-Pvrrol-1-vl-1H-indazol-3-vl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-00-5P,
(5-Amino-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)quinazolin-4-v1]amine
404827-01-6P, [2-(2-Chlorophenyl)quinazolin-4-yl](7-fluoro-1H-indazol-3-
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indazol-3-vl)amine 404827-03-8P,
[2-(2-Chlorophenyl)quinazolin-4-vl](5,7-difluoro-1H-indazol-3-vl)amine
404827-04-9P, [2-(2-Chlorophenyl)quinazolin-4-yl](5-trifluoromethyl-1H-
                             404827-05-0P.
indazol-3-vl)amine
[2-(2-Cyanophenyl)quinazolin-4-yl](1H-indazol-3-yl)amine 404827-07-2P,
(6-Chloro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)quinazolin-4-
              404827-08-3P, (7-Fluoro-6-trifluoromethyl-1H-indazol-3-yl)[2-(2-
vllamine
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-09-4P,
(6-Bromo-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)quinazolin-4-v1]amine
404827-10-7P, [2-(2,4-Bis-trifluoromethylphenyl)quinazolin-4-yl](5,7-
difluoro-1H-indazol-3-vl)amine 404827-11-8P,
(5,7-Difluoro-1H-indazol-3-yl)[2-(4-fluoro-2-
                                                                    404827-12-9P,
trifluoromethylphenyl)guinazolin-4-vllamine
[2-(2-Bromophenyl)quinazolin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
404827-13-0P, (5,7-Difluoro-1H-indazol-3-yl)[2-(5-fluoro-2-
trifluoromethylphenyl)quinazolin-4-vllamine 404827-14-1P,
[2-(2,4-Dichlorophenyl)quinazolin-4-yl](5,7-Difluoro-1H-indazol-3-yl)amine
404827-15-2P, [2-(2-Chloro-5-trifluoromethylphenyl)quinazolin-4-yl] (5,7-
                                                404827-16-3P,
Difluoro-1H-indazol-3-y1)amine
(4-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
vl]amine 404827-18-5P
                                      404827-20-9P,
(5-Fluoro-1H-indazol-3-v1)(8-methoxy-2-(2-trifluoromethylphenyl)quinazolin-
4-yl]amine trifluoroacetate 404827-21-0P 404827-23-2P,
(5,7-Difluoro-1H-indazol-3-yl)[8-methoxy-2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine trifluoroacetate
404827-24-3P, [2-(2-Chloropyridin-3-yl)quinazolin-4-yl](5,7-Difluoro-1H-
                               404827-26-5P,
indazol-3-v1)amine
[2-(4-Amino-2-chlorophenyl)quinazolin-4-y1](5,7-Difluoro-1H-indazol-3-
v1) amine 404827-27-6P, (4.5.6.7-Tetrahvdro-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                                                    404827-28-7P.
(1H-Pyrazolo[4,3-b]pyridin-3-yl)[2-(2-trifluoromethylphenyl)quinazolin-4-
vl]amine
              404827-29-8P, (1H-Pyrazolo[3,4-b]pyridin-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                                                      404827-30-1P.
(6-Methyl-1H-pyrazolo[3,4-b]pyridin-3-y1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-31-2P,
(6-0xo-5-phenv1-5,6-dihydro-1H-pvrazolo[4,3-c]pvridazin-3-v1)-[2-(2-6-0xo-5-phenv1-5,6-dihydro-1H-pvrazolo[4,3-c]pvridazin-3-v1)-[2-(2-6-0xo-5-phenv1-5,6-dihydro-1H-pvrazolo[4,3-c]pvridazin-3-v1)-[2-(2-6-0xo-5-phenv1-5,6-dihydro-1H-pvrazolo[4,3-c]pvridazin-3-v1)-[2-(2-6-0xo-5-phenv1-5,6-dihydro-1H-pvrazolo[4,3-c]pvridazin-3-v1)-[2-(2-6-0xo-5-phenv1-5,6-dihydro-1H-pvrazolo[4,3-c]pvridazin-3-v1)-[2-(2-6-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-5-phenv1-5-0xo-
trifluoromethylphenyl)quinazolin-4-yl]amine 404827-32-32,
[6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-
3-v1)amine 404827-33-4P.
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(5-Furan-2-v1-2H-pvrazo1-3-v1)[6-methv1-2-(2-
trifluoromethoxyphenyl)pyrimidin-4-yl]amine
                                            404827-34-5P.
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404827-35-6P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-
methyl-2H-pyrazol-3-yl)amine 404827-36-7P 404827-37-8P,
(1H-Indazol-3-yl) [2-(2-trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-
          404827-38-9P, (5,7-Difluoro-1H-indazo1-3-y1)[2-(2-
trifluoromethylphenyl)pyrido[2,3-d]pyrimidin-4-yl]amine 404827-40-3P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate)
                       404827-41-4P,
(5-Fluoro-1H-indazol-3-yl) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-vllamine
                                       404827-42-5P.
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-
indazol-3-vl)amine 404827-43-6P,
(1H-Indazol-3-v1) [2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-vllamine 404827-44-7P.
(7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine 404827-45-8P,
(5,7-Difluoro-1H-indazol-3-vl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-
cyclopentapyrimidin-4-yl]amine 404827-46-9P,
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-
          404827-47-0P, [2-(2-Chlorophenyl)-6,7-dihydro-5H-
yl)amine
cvclopentapyrimidin-4-vl](7-fluoro-1H-indazol-3-vl)amine 404827-48-1P.
[2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-
                      404827-49-2P.
1H-indazol-3-v1)amine
(1H-Indazol-3-v1) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine
                                        404827-50-5P.
(7-Fluoro-1H-indazol-3-v1) [2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine
                                       404827-51-6P.
(5,7-Difluoro-1H-indazol-3-v1)[2-(2-trifluoromethylphenyl)-5,6,7,8,9,10-
hexahydrocyclooctapyrimidin-4-yl]amine 404827-52-7P,
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
yl)amine 404827-53-8P,
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
3-vl)amine
            404827-54-9P, (6-Fluoro-1H-indazol-3-v1)[2-(2-
trifluoromethylphenyl)quinazolin-4-yl]amine
                                            404827-55-0P.
3-[[2-(2-Trifluoromethylphenyl)guinazolin-4-yl]amino]-1H-indazole-5-
carboxylic acid methyl ester 404827-56-1P,
(5-Methyl-2H-pyrazol-3-yl)[2-(2-naphthyl-1-yl)quinazolin-4-yl]amine
404827-58-3P, [2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](7-fluoro-1H-
indazol-3-vl)amine bis(trifluoroacetate) 404827-62-9P,
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5-fluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate) 404827-64-1P.
[2-(2-Chlorophenyl)pyrido[2,3-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate) 404827-67-4P.
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](1H-indazol-3-yl)amine
bis(trifluoroacetate) 404827-70-9P.
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](7-fluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate)
                               404827-72-1P,
[2-(2-Chlorophenv1)pvrido[3,4-d]pvrimidin-4-v1](5-fluoro-1H-indazol-3-
yl)amine bis(trifluoroacetate) 404827-74-3P,
[2-(2-Chlorophenyl)pyrido[3,4-d]pyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
vl)amine bis(trifluoroacetate)
                               404828-07-5P,
(1H-Indazol-3-yl)(2-phenylquinazolin-4-yl)amine
                                                 404828-08-6P.
(5-Methyl-2H-pyrazol-3-yl)(2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
yl)amine
          404828-09-7P, (5-Methyl-2H-pyrazol-3-yl)(2-phenyl-6,7,8,9-
tetrahydro-5H-cvcloheptapyrimidin-4-vl)amine 404828-10-0P,
(5-Methyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-yl)-amine
404828-11-1P, (7-Chloro-2-pyridin-4-ylquinazolin-4-yl) (5-methyl-2H-pyrazol-
3-y1) amine 404828-12-2P, (6-Chloro-2-pyridin-4-y1quinazolin-4-y1) (5-
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methv1-2H-pvrazo1-3-v1)amine
                             404828-13-3P,
(2-Cyclohexylquinazolin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404828-14-4P, (5-Methyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-15-5P, [2-(4-Iodophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404828-16-6P, [2-(4-Chlorophenyl)quinazolin-4-yl](5-methyl-2H-
pyrazol-3-yl)amine 404828-17-7P,
[2-(3,5-Dichlorophenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404828-18-8P, [2-(4-Cyanophenyl)quinazolin-4-v1](5-methyl-2H-pyrazol-3-
          404828-19-9P, [2-(3-Todophenyl)quinazolin-4-v1](5-methyl-2H-
                    404828-20-2P,
pvrazol-3-vl)amine
[2-(4-Ethylsulfanylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-21-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
yl)amine
           404828-22-4P, [2-(4-tert-Butylphenyl)quinazolin-4-yl](5-methyl-
                       404828-23-5P.
2H-pyrazol-3-vl)amine
[2-(4-Chlorophenyl)quinazolin-4-yl](5-cyclopropyl-2H-pyrazol-3-yl)amine
404828-24-6P, (2-Benzo[1,3]dioxol-5-vlguinazolin-4-vl) (5-methyl-2H-pyrazol-
3-v1)amine 404828-25-7P, [2-(4-Dimethylaminophenyl)quinazolin-4-v1](5-
methyl-2H-pyrazol-3-yl)amine 404828-26-8P,
[2-(3-Methoxyphenyl)guinazolin-4-vl](5-methyl-2H-pyrazol-3-vl)amine
404828-27-9P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-
dichlorophenyl)quinazolin-4-yl]amine
                                     404828-28-0P,
[2-(3-Ethynylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-29-1P, [2-(3-Methylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
          404828-31-5P, [2-(3,5-Difluorophenyl)quinazolin-4-yl](5-methyl-
                      404828-32-6P,
2H-pyrazol-3-vl)amine
[2-(3-Chloro-4-fluorophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
          404828-34-8P, (5-Methyl-2H-pyrazol-3-yl)[2-(3-
trifluoromethylphenyl)quinazolin-4-vllamine 404828-35-9P,
[2-(3-Cyanophenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-36-0P, [2-(3-Isopropylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
          404828-37-1P, (5-Methyl-2H-pyrazol-3-yl)(2-pyridin-3-
vlquinazolin-4-vl)amine 404828-38-2P,
[2-(3-Acetylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-39-3P, [2-(3,5-Bis(trifluoromethyl)phenyl)quinazolin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404828-40-6P,
[2-(3-Hydroxymethylphenyl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404828-41-7P, (5-Methyl-2H-pyrazol-3-yl) [2-(3-phenoxyphenyl) quinazolin-4-
          404828-42-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3-
phenoxyphenyl)quinazolin-4-vllamine
                                     404828-43-9P 404828-44-0P,
(2-Phenylquinazolin-4-yl) (2H-pyrazol-3-yl) amine 404828-45-1P.
(2H-Pvrazol-3-v1)(2-pvridin-4-vlquinazolin-4-vl)amine 404828-46-2P,
(5-Ethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
                                                          404828-47-3P,
(2-Phenylguinazolin-4-vl) (5-propyl-2H-pyrazol-3-vl)amine
                                                          404828-48-4P.
(5-Isopropyl-2H-pyrazol-3-yl) (2-phenylquinazolin-4-yl) amine
404828-49-5P, (5-tert-Butyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-50-8P, (5-tert-Butyl-2H-pyrazol-3-yl)(2-pyridin-4-ylquinazolin-4-
yl)amine 404828-51-9P, (5-Cyclopentyl-2H-pyrazol-3-v1)(2-
phenylquinazolin-4-vl)amine
                             404828-52-0P,
(5-Phenyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine 404828-53-1P,
(5-Carboxy-2H-pyrazol-3-v1)(2-phenylquinazolin-4-v1)amine 404828-55-3P,
(5-Hydroxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
404828-56-4P, (5-Methoxymethyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
v1) amine 404828-57-5P, [5-(3-Hydroxypropy1)-2H-pyrazol-3-y1](2-
phenylquinazolin-4-vl)amine 404828-59-7P.
[5-(3-Methoxypropy1)-2H-pyrazo1-3-y1](2-phenylquinazolin-4-y1)amine
404828-60-0P, [5-(3-Aminopropy1)-2H-pyrazo1-3-y1](2-phenylquinazo1in-4-
          404828-62-2P, (5-Isopropvlcarbamov1-2H-pvrazo1-3-v1)(2-
phenylquinazolin-4-yl)amine
                            404828-63-3P.
(5-Allylcarbamov1-2H-pyrazol-3-v1)(2-phenylquinazolin-4-v1)amine
404828-64-4P, [5-(2-Methoxyethylcarbamoyl)-2H-pyrazol-3-yl](2-
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phenylquinazolin-4-vl)amine
                                 404828-65-5P,
    (5-Benzylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
    404828-66-6P, (5-Cyclohexylcarbamoyl-2H-pyrazol-3-yl)(2-phenylguinazolin-4-
    yl)amine 404828-67-7P, (5-Diethylcarbamoyl-2H-pyrazol-3-yl)(2-
    phenylquinazolin-4-vl)amine 404828-68-8P,
    [5-(Benzylmethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
    404828-69-9P, (2-Phenylquinazolin-4-yl)(5-propylcarbamoyl-2H-pyrazol-3-
              404828-70-2P, [5-(Ethylisopropylcarbamoyl)-2H-pyrazol-3-vl](2-
    phenylguinazolin-4-vl)amine
                                 404828-71-3P.
    (5-Cyclopropylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-yl)amine
    404828-72-4P, (5-Isobutylcarbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
              404828-73-5P, [5-((3S)-3-Methoxymethylpyrrolidine-1-carbonyl)-
    vl)amine
                                                   404828-74-6P.
    2H-pyrazol-3-yl](2-phenylquinazolin-4-yl)amine
    (2-Phenylquinazolin-4-yl) (5-m-tolylcarbamoyl-2H-pyrazol-3-yl) amine
    404828-75-7P, (2-Phenylquinazolin-4-yl)(5-p-tolylcarbamoyl-2H-pyrazol-3-
              404828-76-8P, (5-Methylcarbamov1-2H-pyrazo1-3-v1)(2-
    phenylguinazolin-4-vl)amine 404828-77-9P,
    [5-(Morpholine-4-carbony1)-2H-pyrazol-3-y1](2-phenylquinazolin-4-y1)amine
    404828-78-0P, [5-(1-Methylpiperazine-4-carbonyl)-2H-pyrazol-3-yl](2-
    phenylquinazolin-4-yl)amine 404828-79-1P,
    [5-(2-Hydroxyethylcarbamoyl)-2H-pyrazol-3-yl](2-phenylquinazolin-4-
              404828-80-4P, (5-Carbamoyl-2H-pyrazol-3-yl)(2-phenylquinazolin-
    vl)amine
    4-vl)amine
                 404828-82-6P, (4-Bromo-2H-pyrazol-3-yl)(2-phenylquinazolin-4-
    vl)amine
               404828-83-7P, (4-Bromo-5-methyl-2H-pyrazol-3-yl)(2-
                                 404828-84-8P.
    phenylguinazolin-4-vl)amine
    (4-Cyano-2H-pyrazol-3-yl) (2-phenylquinazolin-4-yl) amine
                                                             404828-85-9P,
    (5-Methyl-2H-pyrazol-3-yl)(2-morpholin-4-ylquinazolin-4-yl)amine
    404828-86-0P, (5-Methyl-2H-pyrazol-3-yl)(2-piperazin-1-ylquinazolin-4-
    vl)amine
              404828-87-1P
, [2-(4-Methylpiperidin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
    404828-88-2P, [2-(4-Methylpiperazin-1-yl)quinazolin-4-yl](5-methyl-2H-
    pvrazol-3-vl)amine 404828-89-3P,
    (5-Methyl-2H-pyrazol-3-yl)(2-piperidin-1-ylquinazolin-4-yl)amine
    404828-90-6P, [2-(Azepan-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-3-
    vl)amine
              404828-91-7P, [2-[4-(2-Hydroxyethyl)piperidin-1-yl]quinazolin-4-
    yl](5-methyl-2H-pyrazol-3-yl)amine 404828-92-8P,
    (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-methylpiperidin-1-yl)quinazolin-4-
              404828-94-0P, [2-(1,4-Dioxa-8-azaspiro[4.5]dec-8-yl)quinazolin-
    vllamine
    4-v11(5-methv1-2H-pyrazo1-3-v1)amine 404828-95-1P,
    [2-(4-Cyclopentylaminopiperidin-1-yl)quinazolin-4-yl](5-methyl-2H-pyrazol-
    3-v1)amine
                404828-96-2P, [2-(4-Hydroxypiperidin-1-yl)quinazolin-4-yl](5-
    methyl-2H-pyrazol-3-yl)amine 404828-97-3P,
    (5-Cyclopropyl-2H-pyrazol-3-yl) (2-(4-hydroxy-4-phenylpiperidin-1-
    vl)quinazolin-4-vl]amine 404828-98-4P,
    (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(1,3-dihydroisoindol-2-yl)guinazolin-4-
    vl]amine 404828-99-5P, [2-(Azepan-1-vl)quinazolin-4-vl](5-cyclopropyl-2H-
    pyrazol-3-yl)amine 404829-00-1P,
    (5-Cyclopropy1-2H-pyrazo1-3-y1)[2-(3,4-dihydro-1H-isoquinolin-2-
    yl) quinazolin-4-yl]amine 404829-01-2P,
    (5-Cvclopropv1-2H-pvrazo1-3-v1)[2-(2,3-dihvdroindo1-1-v1)quinazo1in-4-
              404829-02-3P, (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-
    hydroxymethylpiperidin-1-yl)quinazolin-4-yl]amine 404829-03-4P,
    (5-Cyclopropyl-2H-pyrazol-3-yl)[2-(3,4-dihydro-2H-quinolin-1-yl)quinazolin-
                 404829-05-6P, 5-(Piperidine-1-carbonyl)-2H-pyrazol-3-yl-(2-
    4-vllamine
    (piperidine-1-yl)quinazolin-4-yl]amine 404829-06-7P,
    (5-Hydroxymethyl-2H-pyrazol-3-yl)[2-(piperidin-1-yl)quinazolin-4-yl]amine
    404829-07-8P, (5-Carbamov1-2H-pyrazol-3-v1)[2-(piperidin-1-v1)quinazolin-4-
    yl]amine 404829-08-9P, (5-Carbamoyl-2H-pyrazol-3-yl)[2-(4-
    methylpiperidin-1-vl)quinazolin-4-vllamine 404829-09-0P,
    (5,7-Difluoro-1H-indazol-3-yl)(2-phenyl-5,6,7,8-tetrahydroquinazolin-4-
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404829-10-3P, (2-Phenvl-5,6,7,8-tetrahydroguinazolin-4-vl)(5-
trifluoromethyl-1H-indazol-3-yl)amine 404829-11-4P,
(7-Fluoro-1H-indazol-3-v1)(2-phenylquinazolin-4-v1)amine
(5-Fluoro-1H-indazol-3-yl)(2-phenylquinazolin-4-yl)amine 404829-13-6P,
(5,7-Difluoro-1H-indazol-3-yl)(2-phenylquinazolin-4-yl)amine
404829-14-7P, (1H-Indazol-3-yl)[2-(3-trifluoromethylphenyl)quinazolin-4-
         404829-15-8P, (2-Phenylquinazolin-4-yl)(1H-pyrazolo[4,3-
b|pvridin-3-v1)amine 404829-16-9P,
[5-(3-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylguinazolin-4-vl)amine 404829-17-0P,
(6-0xo-5-phenyl-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl)-(2-
phenylguinazolin-4-vl)amine 404829-18-1P,
[5-(4-Methoxyphenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylquinazolin-4-yl)amine 404829-19-2P,
[5-(2,4-Dichlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-
vll(2-phenylguinazolin-4-vl)amine
                                  404829-21-6P.
[6-0xo-5-(3-trifluoromethylphenyl)-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-
3-yl](2-phenylquinazolin-4-yl)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
  analogs as protein kinase inhibitors for treatment of cancer,
  diabetes, and Alzheimer's disease)
404829-22-7P, [6-0xo-5-(4-Phenoxyphenyl)-5,6-dihydro-1H-pyrazolo[4,3-
c]pyridazin-3-yl](2-phenylquinazolin-4-yl)amine
                                                404829-23-8P.
[5-(4-Chlorophenyl)-6-oxo-5,6-dihydro-1H-pyrazolo[4,3-c]pyridazin-3-yl](2-
phenylquinazolin-4-yl)amine 404829-24-9P,
(2-Imidazol-1-ylquinazolin-4-yl)(1H-indazol-3-yl)amine 404829-25-0P,
(1H-Indazol-3-v1)[2-(2-methylimidazol-1-v1)quinazolin-4-v1]amine
404829-26-1P, (1H-Indazol-3-yl)(2-piperidin-1-ylquinazolin-4-yl)amine
404829-27-2P, (1H-Indazol-3-yl)[2-(octahydroquinolin-1-yl)quinazolin-4-
vl]amine 404829-28-3P, (1H-Indazol-3-vl)[2-(2,6-dimethylmorpholin-4-
vl) guinazolin-4-vllamine 404829-29-4P.
(5-Methyl-2H-pyrazol-3-yl) (2-phenylpyrimidin-4-yl) amine
404829-30-79, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
v1](5-methv1-2H-pvrazo1-3-v1)amine 404829-32-9P,
[2-(4-Methylpiperidin-1-yl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-33-0P, [2-(4-Methylpiperidin-1-yl)-5-nitropyrimidin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404829-34-1P,
[5-Amino-2-(4-Methylpiperidin-1-v1)pyrimidin-4-v1](5-methyl-2H-pyrazol-3-
          404829-35-2P, [5-Amino-6-methyl-2-(4-methylpiperidin-1-
v1)pvrimidin-4-v11(5-methv1-2H-pvrazo1-3-v1)amine 404829-36-3P
, [6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-
vl)amine
         404829-37-4P.
[2-(4-Chlorophenv1)-6-methylpyrimidin-4-v1](5-furan-2-v1-2H-pyrazol-3-
         404829-38-5P,
[5-(Furan-2-v1)-2H-pvrazol-3-v1](6-methv1-2-phenvlpvrimidin-4-v1)amine
404829-39-6P
             404829-40-99,
(5-Furan-2-v1-2H-pvrazo1-3-v1)[6-methv1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yl]amine
                                           404829-41-0P.
[2-(2,3-Dihydrobenzo[1,4]dioxin-2-yl)-6-methylpyrimidin-4-yl](5-furan-2-yl-
2H-pyrazol-3-yl)amine 404829-42-1P,
[2-(2,3-Dihydrobenzo[1,4]dioxin-2-y1)-6-ethylpyrimidin-4-y1](5-methyl-2H-
pyrazol-3-yl)amine
                   404829-43-2P,
(6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl)(5-phenyl-2H-
pyrazol-3-y1)amine 404829-45-4P,
[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
v1)amine 404829-46-5P.
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ΙT

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(5-Furan-2-v1-2H-pvrazol-3-v1)[6-methv1-2-(4-methv1phenv1)-pvrimidin-4-
yl]amine 404829-47-6P.
(6-Methoxymethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-pyrazol-3-yl)amine
404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-
pyrazol-3-v1)amine 404829-49-8P,
(6-Methyl-2-phenylpyrimidin-4-v1) (5-methyl-2H-pyrazol-3-v1) amine
404829-50-3P, [6-Ethyl-2-(4-methylphenyl)pyrimidin-4-yl](5-methyl-
2H-pyrazol-3-yl)amine 404829-51-2P,
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
tolylpyrimidin-4-yl)amine
                          404829-53-4P,
(1H-Indazol-3-v1)(6-methoxymethyl-2-phenylpyrimidin-4-v1)amine
404829-54-5P, (5-Methyl-2H-pyrazol-3-yl)-(2-pyridin-4-ylthieno[3,2-
dlpvrimidin-4-vl)amine 404829-55-6P,
(5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[3,4-d]pyrimidin-4-yl)amine
404829-56-7P, (5-Methyl-2H-pyrazol-3-yl)-(2-phenylpyrido[2,3-d]pyrimidin-4-
yl)amine 404829-57-8P, (5-Cyclopropyl-2H-pyrazol-3-yl)-(2-
phenylpyrido[3, 4-d]pyrimidin-4-yl)amine 404829-60-3P,
(5-Cyclopropyl-2H-pyrazol-3-yl)[2-(4-methylpiperidin-1-yl)pyrrolo[3,2-
d]pyrimidin-4-y1]amine
                       404829-62-5P,
(5-Fluoro-1H-indazol-3-yl)-(2-phenyl-5,6,7,8-tetrahydropyrido[4,3-
d]pyrimidin-4-yl)amine
                       404829-63-6P,
(1H-Indazol-3-yl)[3-(2-trifluoromethylphenyl)isoquinoline-1-yl]amine
404829-65-8P, (5,7-Difluoro-1H-indazol-3-v1)[3-(2-
                                            404829-66-9P.
trifluoromethylphenyl)isoguinolin-1-yllamine
(1H-Indazol-3-vl)(2-phenylquinolin-4-vl)amine
                                             404829-67-0P,
(2-Phenylquinolin-4-yl) (1H-pyrazolo[4,3-b]pyridin-3-yl)amine
404829-68-1P, (1H-Indazol-3-vl)[2-(2-trifluoromethylphenyl)quinolin-4-
         404829-69-2P, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-
trifluoromethylphenyl)guinolin-4-vllamine
                                         404829-70-5P,
[2-(2-Trifluoromethylphenyl)quinolin-4-yl](1H-pyrazolo[4,3-b]pyridin-3-
yl)amine 404829-71-6P, (2-Phenylquinazolin-4-yl)(2H-1,2,4-triazol-3-
         404829-72-7P, (5-Methyl-2H-1,2,4-triazol-3-yl)(2-
                            404829-73-8P.
phenylquinazolin-4-yl)amine
(2H-1,2,4-Triazol-3-y1)[2-(2-trifluoromethylphenyl)quinazolin-4-y1]amine
404829-74-9P, (5-Methyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-vl]amine
(5-Methylsulfanyl-2H-1,2,4-triazol-3-yl)[2-(2-
trifluoromethylphenyl)quinazolin-4-yllamine
                                            404829-76-1P,
(1H-[1,2,4]Triazol-3-y1)[3-(2-trifluoromethylphenyl)isoquinolin-1-y1]amine
404829-77-2P, (2-Phenylquinolin-4-yl)(1H-1,2,4-triazol-3-yl)amine
404829-78-3P, (1H-[1,2,4]Triazol-3-yl)[2-(2-trifluoromethylphenyl)quinolin-
4-vllamine
            404829-79-4P,
(1H-Indazol-3-vl)[5-methyl-6-morpholin-4-vl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-80-7P
                                                          404829-81-8P
                                                         404858-66-8P
404845-75-6P
              404858-63-5P 404858-64-6P
                                          404858-65-7P
404858-67-9P
              404858-68-0P
                            404858-69-1P
                                           404858-70-4P
                                                          404858-71-5P
404858-72-6P
              404858-73-7P
                            404858-74-8P
                                           404858-75-9P
                                                          404858-76-0P
404858-77-1P
             404858-78-2P
                            404858-79-3P 404858-80-6P
                                                          404858-81-7P
404858-82-8P 404858-83-9P
                            404858-84-0P 404858-85-1P
                                                          404858-86-2P
404858-87-3P 404858-88-4P 404858-89-5P 404858-90-8P
                                                         404858-91-9P
404858-92-0P 404858-93-1P 404858-94-2P 404858-95-3P
                                                         404858-96-4P
404858-97-5P 404858-98-6P 404858-99-7P 404859-00-3P
                                                         404859-01-4P
404859-02-5P 404859-03-6P 404859-04-7P 404859-05-8P
                                                          404859-06-9P
404859-07-0P
              404859-08-1P
                            404859-09-2P
                                           404859-10-5P
                                                          404859-11-6P
404859-12-7P 404859-13-8P 404859-14-9P 404859-15-0P
                                                          404859-16-1P
404859-17-2P 404860-48-6P
RL: FAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
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(protein kinase inhibitor; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

IT 404827-83-4P, 4-Chloro-6-cyclohexyl-2-(2-

trifluoromethylphenyl)pyrimidine 404827-84-5P,

4-Chloro-6-phenyl-2-(2-trifluoromethylphenyl)pyrimidine

404827-86-7P, 4-Chloro-6-(2-chlorophenyl)-2-(2-

trifluoromethylphenyl)pyrimidine 404827-87-8P,

4-Chloro-6-(2-fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidine

404828-02-0P, 6-Cyclohexyl-2-(2-trifluoromethylphenyl)-3H-

pyrimidin-4-one 404829-31-8P,

(6-Chloro-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes,

and Alzheimer's disease)

RN 404827-83-4 HCAPLUS

CN Pyrimidine, 4-chloro-6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404827-84-5 HCAPLUS
- CN Pyrimidine, 4-chloro-6-phenyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404827-86-7 HCAPLUS

- RN 404827-87-8 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-(CA INDEX NAME)

- RN 404828-02-0 HCAPLUS
- CN 4(3H)-Pyrimidinone, 6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-31-8 HCAPLUS
- CN 4-Pyrimidinamine, 6-chloro-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- IT 404826-28-4P, [2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5-Methyl-2H-pyrazol-3-yl)amine 404826-46-6P,
  - (1H-Indazol-3-yl)[6-methyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl]amine
    - 404826-47-7P, (1H-Indazol-3-yl)[6-phenyl-2-(2-
    - trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-48-8P,
    - (1H-Indazol-3-y1)[6-(pyridin-4-y1)-2-(2-trifluoromethylpheny1)pyrimidin-4-y1]amine 404826-49-9P,
  - (1H-Indazol-3-yl)[6-(pyridin-2-yl)-2-(2-trifluoromethylphenyl)pyrimidin-4-
  - yl]amine 404826-50-2P, [6-(2-Chlorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
  - 3-yl)amine 494826-51-3P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
  - y1) amine 404826-52-42,
  - [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](5-fluoro-1H-indazol-3-yl)amine 404826-53-5P,
  - [2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](1H-indazol-3-y1)amine

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404826-54-6P, [5,6-Dimethyl-2-(2-trifluoromethylphenyl)pyrimidin-4-
yl](7-fluoro-1H-indazol-3-yl)amine 404826-55-7P,
(5,7-Difluoro-1H-indazol-3-v1) (5,6-Dimethyl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404826-56-8P,
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-yl](5,7-difluoro-1H-indazol-3-
yl)amine
         404826-57-9P,
[2-(2-Chloropheny1)-5,6-dimethylpyrimidin-4-y1](7-fluoro-1H-indazol-3-
          404826-58-0P,
vl)amine
[2-(2-Chlorophenyl)-5,6-dimethylpyrimidin-4-vl](5-fluoro-1H-indazol-3-
          404826-59-1P,
vl)amine
[2-(2,4-Dichlorophenyl)-5,6-dimethylpyrimidin-4-yl](1H-indazol-3-yl)amine
404827-32-3P, [6-Methyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-
                                    404827-33-4P,
yl](5-phenyl-2H-pyrazol-3-yl)amine
(5-Furan-2-y1-2H-pyrazol-3-y1)[6-methy1-2-(2-
                                             404827-34-52,
trifluoromethoxyphenyl)pyrimidin-4-yl]amine
[6-Ethyl-2-(2-trifluoromethoxyphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
yl)amine 404827-52-72,
[6-Cyclohexyl-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-3-
yl)amine 404827-53-8P,
[6-(2-Fluorophenyl)-2-(2-trifluoromethylphenyl)pyrimidin-4-yl](1H-indazol-
            404829-29-49,
3-v1)amine
(5-Methyl-2H-pyrazol-3-yl) (2-phenylpyrimidin-4-yl) amine
404829-30-7P, [6-(4-Acetamidophenylsulfanyl)-2-phenylpyrimidin-4-
                                    404829-36-3P.
v1](5-methyl-2H-pyrazol-3-yl)amine
[6-Methyl-2-(4-methylphenyl)pyrimidin-4-yl](5-phenyl-2H-pyrazol-3-yl)amine
404829-37-4P, [2-(4-Chlorophenyl)-6-methylpyrimidin-4-yl](5-furan-
2-v1-2H-pyrazol-3-v1)amine
                            404829-38-5P,
[5-(Furan-2-v1)-2H-pvrazo1-3-v1](6-methv1-2-phenvlpvrimidin-4-v1)amine
404829-39-6P
              404829-40-99.
(5-Furan-2-v1-2H-pvrazo1-3-v1)[6-methv1-2-(4-
trifluoromethylphenyl)pyrimidin-4-yl]amine 404829-43-2P,
(6-Ethyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl) amine
404829-44-3P, (6-Methyl-2-phenylpyrimidin-4-yl) (5-phenyl-2H-
pyrazol-3-yl)amine 404829-45-4P,
[6-Ethyl-2-(4-trifluoromethylphenyl)pyrimidin-4-yl](5-methyl-2H-pyrazol-3-
vl)amine
          404829-46-5P.
(5-Furan-2-v1-2H-pyrazol-3-v1)[6-methv1-2-(4-methv1phenv1)-pyrimidin-4-
vllamine
          404829-47-6P.
(6-Methoxymethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-pyrazol-3-yl)amine
404829-48-7P, (5,6-Dimethyl-2-phenylpyrimidin-4-yl)(5-methyl-2H-
pyrazol-3-vl)amine 404829-49-8P,
(6-Methyl-2-phenylpyrimidin-4-yl) (5-methyl-2H-pyrazol-3-yl)amine
404829-50-19, [6-Ethv1-2-(4-methvlphenvl)pvrimidin-4-v1](5-methv1-
2H-pyrazol-3-yl)amine 404829-51-2P,
[2-(4-Chlorophenyl)-6-ethylpyrimidin-4-yl](5-methyl-2H-pyrazol-3-yl)amine
404829-52-3P, (5-Methyl-1H-pyrazol-3-yl)(6-methyl-2-p-
tolvlpvrimidin-4-vl)amine
                           404829-53-4P.
(1H-Indazol-3-vl) (6-methoxymethyl-2-phenylpyrimidin-4-vl)amine
404829-79-4F, (1H-Indazol-3-yl)[5-methyl-6-morpholin-4-yl-2-(2-
trifluoromethylphenyl)pyrimidin-4-yllamine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (protein kinase inhibitor; preparation of heterocyclylpyrazolamines and
   analogs as protein kinase inhibitors for treatment of cancer,
   diabetes, and Alzheimer's disease)
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RN 404826-28-4 HCAPLUS

CN

<sup>4-</sup>Pyrimidinamine, 2-(2-chlorophenyl)-5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

RN 404826-46-6 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-methyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-47-7 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-phenyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-48-8 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(4-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-49-9 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-pyridinyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-50-2 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(2-chlorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

RN 404826-51-3 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

RN 404826-52-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5-fluoro- (CA INDEX NAME)

RN 404826-53-5 HCAPLUS

 $\texttt{CN} \qquad \texttt{1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-1}$ 

(CA INDEX NAME)

- RN 404826-54-6 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-7-fluoro- (CA INDEX NAME)

- RN 404826-55-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[5,6-dimethyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

- RN 404826-56-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-5,7-difluoro- (CA INDEX NAME)

CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-5,6-dimethyl-4-pyrimidinyl]-7fluoro- (CA INDEX NAME)

- RN 404826-58-0 HCAPLUS
- CN 1H-Indazol-3-amine, N-[2-(2-chloropheny1)-5,6-dimethyl-4-pyrimidinyl]-5fluoro- (CA INDEX NAME)

- RN 404826-59-1 HCAPLUS

- RN 404827-32-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 404827-33-4 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-34-5 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 404827-52-7 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-cyclohexyl-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl]- (CA INDEX NAME)

- RN 404827-53-8 HCAPLUS
- CN 1H-Indazol-3-amine, N-[6-(2-fluorophenyl)-2-[2-(trifluoromethyl)phenyl]-4pyrimidinyl|- (CA INDEX NAME)

- RN 404829-29-4 HCAPLUS
- CN 4-Pyrimidinamine, N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-30-7 HCAPLUS
- CN Acetamide, N-[4-[[6-[(5-methyl-1H-pyrazol-3-y1)amino]-2-phenyl-4pyrimidinyl]thio]phenyl]- (CA INDEX NAME)

- RN 404829-36-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-phenyl-1H-pyrazol-3-yl)(CA INDEX NAME)

- RN 404829-37-4 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl- (CA INDEX NAME)

RN 404829-38-5 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furany1)-1H-pyrazol-3-y1]-6-methyl-2-phenyl-(CA INDEX NAME)

RN 404829-39-6 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-phenyl-1H-pyrazol-3-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 404829-40-9 HCAPLUS

CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-43-2 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

- RN 404829-44-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-2-phenyl-N-(5-phenyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

- RN 404829-45-4 HCAPLUS
- CN 4-Pyrimidinamine, 6-ethyl-N-(5-methyl-1H-pyrazol-3-y1)-2-(4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 404829-46-5 HCAPLUS
- CN 4-Pyrimidinamine, N-[5-(2-furanyl)-1H-pyrazol-3-yl]-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 404829-47-6 HCAPLUS

CN 4-Pyrimidinamine, 6-(methoxymethyl)-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl-(CA INDEX NAME)

RN 404829-48-7 HCAPLUS

CN 4-Pyrimidinamine, 5,6-dimethyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-49-8 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(5-methyl-1H-pyrazol-3-yl)-2-phenyl- (CA INDEX NAME)

RN 404829-50-1 HCAPLUS

CN 4-Pyrimidinamine, 6-ethyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

RN 404829-51-2 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-chloropheny1)-6-ethy1-N-(5-methy1-1H-pyrazol-3-y1)-(CA INDEX NAME)

RN 404829-52-3 HCAPLUS

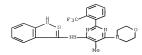
CN 4-Pyrimidinamine, 6-methyl-2-(4-methylphenyl)-N-(5-methyl-1H-pyrazol-3-yl)(CA INDEX NAME)

RN 404829-53-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[6-(methoxymethy1)-2-pheny1-4-pyrimidiny1]- (CA INDEX NAME)

RN 404829-79-4 HCAPLUS

CN 1H-Indazol-3-amine, N-[5-methyl-6-(4-morpholinyl)-2-[2-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 48 THERE ARE 48 CAPLUS RECORDS THAT CITE THIS

RECORD (71 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 24 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1999:387716 HCAPLUS Full-text

DOCUMENT NUMBER: 131:78466

TITLE: Adenosine A3 antagonists

INVENTOR(S): Sugiura, Yoshihiro; Miwatari, Seiji; Kimura, Hiroyuki;

Knzaki, Naoyuki PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.

CODEN: JKXXAF Patent.

DOCUMENT TYPE:

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11158073	A	19990615	JP 1998-270755	19980925 <
PRIORITY APPLN. INFO.:			JP 1997-262525 A	19970926 <
OTHER SOURCE(S):	MARPAT	131:78466		
ED Entered STN: 23 Jun	n 1999			

- AB Adenosine A3 receptor antagonists contain (un)substituted amino-substituted N2-3-containing heterocyclic [5-8 ring-containing] compds. such as 2-chloro-4ethylamino-6-phenylamino-1,3,5-triazine and 2,4-bis[phenylamino]-6cyclohexylamino-1,3,5-triazine. Of 6 compds. tested, the IC50 values of adenosine A3 receptor antagonist activities ranged from 0.7 to 285.9 nM as determined in human adenosine A3 receptor-expressing plasmid-transformed CHO (dhfr-) cell cultures. Tablets were formulated containing 2,4bis[phenylamino]-6-cyclohexylamino- 1.3.5-triazine 50, lactose 34, corn starch 10.6, corn starch paste 5, magnesium stearate 0.4 and calcium CM-cellulose 20
- mq. The drugs are useful for treating e.g. brain ischemic disease. ICM A61K031-535
- ICS A61K031-00; A61K031-505; A61K031-53; C07D251-18; C07D251-50; C07D251-70; C07D403-04
- 63-6 (Pharmaceuticals)
- Section cross-reference(s): 1 1973-09-7 6737-62-8 17654-47-6 21665-49-6 50831-60-2 53773-08-3 53773-09-4 53773-10-7 54589-65-0 61038-64-0 101119-13-5 107274-03-3 113696-90-5 156126-89-5 189249-05-6 228574-85-4
  - 228574-86-5 228574-87-6 228574-88-7 228574-89-8 228574-90-1 228574-91-2 228574-92-3 228574-93-4 228574-94-5 228574-95-6
  - 228574-96-7 228574-97-8 228574-98-9 228574-99-0 228575-00-6 228575-01-7 228575-02-8 228575-03-9 228575-04-0 228575-05-1
  - 228575-06-2 228575-07-3 228575-08-4 228575-09-5

228575-10-8	228575-11-9	228575-12-0	228575-13-1
228575-14-2	228575-15-3	228575-16-4	
228575-17-5	228575-18-6	228575-19-7	
228575-20-0	228575-21-1	228575-22-2	
RL: BAC (Biol	ogical activit	y or effector,	except adverse); BSU
(Biological s	tudy, unclassi	fied); THU (Th	erapeutic use); BIOL
(Biological s	tudy): USES (U	(ses)	

(adenosine A3 receptor antagonists and pharmaceutical

	compns.)		
ΙT	228575-10-8	228575-13-1	228575-14-2
	228575-15-3	228575-16-4	228575-17-5
	228575-18-6	228575-19-7	228575-20-0

RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (USEs)

(adenosine A3 receptor antagonists and <u>pharmaceutical</u> compns.)

RN 228575-10-8 HCAPLUS

CN 4-Pyrimidinamine, 6-chloro-N, 2-diphenyl- (CA INDEX NAME)



RN 228575-13-1 HCAPLUS

CN 4-Pyrimidinamine, N-cyclohexyl-6-hydrazinyl-2-phenyl- (CA INDEX NAME)

RN 228575-14-2 HCAPLUS

CN 4,6-Pyrimidinediamine, N4-cyclohexyl-N6,2-diphenyl- (CA INDEX NAME)

RN 228575-15-3 HCAPLUS

CN 4,6-Pyrimidinediamine, N4,N6,2-triphenyl- (CA INDEX NAME)

RN 228575-16-4 HCAPLUS

CN 4,6-Pyrimidinediamine, N4,2-diphenyl-N6-(phenylmethyl)- (CA INDEX NAME)

RN 228575-17-5 HCAPLUS

CN 4-Pyrimidinamine, 6-(3,5-dimethyl-1H-pyrazol-1-yl)-N,2-diphenyl- (CA INDEX NAME)

RN 228575-18-6 HCAPLUS

CN 4-Pyrimidinamine, 6-(3,5-dimethyl-1H-pyrazol-1-yl)-N-(4-methoxyphenyl)-2-phenyl- (CA INDEX NAME)

RN 228575-19-7 HCAPLUS

CN Pyrimidine, 4-hydrazinyl-6-phenoxy-2-phenyl-, hydrochloride (1:2) (CA INDEX NAME)

2 HC1

RN 228575-20-0 HCAPLUS

CN 4-Pyrimidinamine, 6-phenoxy-N, 2-diphenyl- (CA INDEX NAME)

RN 228575-21-1 HCAPLUS

CN 4-Pvrimidinamine, N-cvclohexvl-6-phenoxv-2-phenvl-, hvdrochloride (1:1) (CA INDEX NAME)

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD

(7 CITINGS)

L52 ANSWER 25 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1998:385479 HCAPLUS Full-text

DOCUMENT NUMBER: 129:54375

ORIGINAL REFERENCE NO.: 129:11333a,11336a

TITLE: Arthropodicidal and fungicidal cyclic amides [triazolones] and their preparation, use, and

compositions

Brown, Richard James; Chan, Dominic Ming-Tak; Howard, INVENTOR(S): Michael Henry, Jr.; Daniel, Dilon Jancey; Clark, David

Alan; Selby, Thomas Paul

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 232 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	TENT										ICAT							
	9823	155																<
	W:	JP,	KR															
	RW:	ΑT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE
ZA	9709	943			A		1999	0505		ZA 1	997-	9943			1	9971	105 <	<
IN	1997	CA02	193		A		2005	0311		IN I	997-	CA21	93		1	9971	120 <	<
WO	9823	156			A1		1998	0604		WO 1	997-	US21	944		1	9971	125 <	<
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		ID,	IL,	IS,	JP,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LT,	LV,	MD,	MG,	MK,	
		MN,	MX,	NO,	NZ,	PL,	RO,	RU,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	UA,	
		US,	UZ,	VN,	YU													
	RW:	GH.	KE.	LS.	MW.	SD.	SZ.	UG,	ZW.	AT.	BE,	CH.	DE.	DK.	ES.	FI.	FR,	
											BF,							
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AU	9854	633			A		1998	0622		AU 1	998-	5463	3		1	9971	125 <	<
EP	9443	14			A1		1999	0929		EP 1	997-	9485	97		1	9971	125 <	<
	R:	CH.	DE.	DK.	ES.	FR.	GB.	IT,	LI.	NL.	IE				_			
BR	9713										.997-	1341	5		1	9971	125 <	<
HI	2000	0015															125 <	
	2001										998-					9971	125 <	
	9904							0131			999-						524 <	
	2000										999-						526 <	
PRIORIT							2000	0310			996-						126 <	
111101111				• •							996-							
											.997-							
											997-							
OTHER C	OUDGE	(C).			MADI	тис	120.	E 427				0021	J 4 4			,,,,		

OTHER SOURCE(S): MARPAT 129:54375

ED Entered STN: 24 Jun 1998

GI

AB Title compds. I and their N-oxides and agriculturally suitable salts are disclosed [wherein E = (un) substituted 1,2-phenylene, naphthalene or heterocyclyl; A = 0, S, N, NR3 or CR4; G = C or N; when G is C, then A is O, S or NR3 and the floating double bond is attached to G; and when G is N, than A is N or CR4 and the floating double bond is attached to A; W = 0, S, NH, NIC1-C6 alkyl) or NO(C1-C6 alkyl); X = H, OR1, SOmR1, halo, C1-C6 alkyl, C1-C6 haloalkyl, C3-C6 cycloalkyl, cyano, NH2, NHR1, NIC1-C6 alkyl)R1, NH(C1-C6 alkoxy) or N(C1-C6 alkoxy)R1; R2 = H, C1-C6 alkyl, C1-C6 haloalkyl, C2-C6 haloalkyl, C2-C6 haloalkyl, C2-C6 haloalkyl, C2-C6 haloalkyl, C2-C6 haloalkyl, C3-C6 cycloalkyl, C2-C6 haloalkoxyaczbonyl, hydroxy, C1-C2 alkoxy, or acetyloxy; R1= (halo)alkyl, (halo)alkenyl, etc.; R3= H, (halo)alkyl, etc.; Y = O, CO, SO, etc.; Z = (un)substituted alkyl, alkenyl or alkynyl, R4 = H, halo, alkyl, etc.; m = 0, 1 or 2]. Claims cover methods of

arthropod and fungal control, novel compds., arthropodicidal and fungicidal compns., and novel intermediates. Approx. 1000 invention compds. were prepared For instance, 5-chloro-2,4-dihydro-4-(2-methoxyphenyl)-2-methyl-3H-1,2,4-triazol-3-one (preparation given) underwent a sequence of cleavage of the Me ether with BBr3, methoxylation of the chloride with NaOMe, and etherification of the phenolic hydroxy group with 5-chloro-3-[3,5-

bis(trifluoromethyl)phenyl]- 1,2,4-thiadiazole, to give title compound II. Selected I were active in screens against Erysiphe graminis, Pyricularia oryzae, Spodoptera frugiperda, Tetranychus urticae, and a variety of other standard pests.

IC ICM A01N043-653

186981-90-8P

186981-91-9P

IT

ICS C07D241-08; C07D249-08; C07D249-12; C07D275-02; C07D285-08; C07D417-04

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5 186979-56-6P 186979-57-7P 186979-58-8P 186979-59-9P 186979-60-2P 186979-61-3P 186979-62-4P 186979-63-5P 186979-64-6P 186979-65-7P 186979-67-9P 186979-68-0P 186979-66-8P 186979-69-1P 186979-70-4P 186979-71-5P 186979-72-6P 186979-73-7P 186979-74-8P 186979-75-9P 186979-76-0P 186979-77-1P 186979-78-2P 186979-79-3P 186979-80-6P 186979-81-7P 186979-82-8P 186979-83-9P 186979-84-0P 186979-85-1P 186979-86-2P 186979-87-3P 186979-88-4P 186979-89-5P 186979-90-8P 186979-91-9P 186979-92-0P 186979-93-1P 186979-94-2P 186979-95-3P 186979-96-4P 186979-97-5P 186979-98-6P 186979-99-7P 186980-03-0P 186980-00-7P 186980-01-8P 186980-02-9P 186980-04-1P 186980-05-2P 186980-06-3P 186980-07-4P 186980-08-5P 186980-09-6P 186980-10-9P 186980-11-0P 186980-12-1P 186980-13-2P 186980-14-3P 186980-15-4P 186980-17-6P 186980-19-8P 186980-20-1P 186980-21-2P 186980-22-3P 186980-23-4P 186980-24-5P 186980-25-6P 186980-26-7P 186980-27-8P 186980-28-9P 186980-29-0P 186980-30-3P 186980-31-4P 186980-32-5P 186980-33-6P 186980-34-7P 186980-35-8P 186980-36-9P 186980-37-0P 186980-38-1P 186980-39-2P 186980-40-5P 186980-41-6P 186980-42-7P 186980-43-8P 186980-44-9P 186980-45-0P 186980-46-1P 186980-47-2P 186980-48-3P 186980-49-4P 186980-50-7P 186980-51-8P 186980-52-9P 186980-53-0P 186980-54-1P 186980-55-2P 186980-56-3P 186980-57-4P 186980-58-5P 186980-59-6P 186980-60-9P 186980-61-0P 186980-63-2P 186980-65-4P 186980-66-5P 186980-67-6P 186980-68-7P 186980-69-8P 186980-70-1P 186980-71-2P 186980-72-3P 186980-77-8P 186980-73-4P 186980-74-5P 186980-75-6P 186980-76-7P 186980-78-9P 186980-79-0P 186980-80-3P 186980-81-4P 186980-82-5P 186980-83-6P 186980-84-7P 186980-85-8P 186980-86-9P 186980-87-0P 186980-88-1P 186980-89-2P 186980-90-5P 186980-91-6P 186980-93-8P 186980-94-9P 186980-95-0P 186980-96-1P 186980-97-2P 186980-98-3P 186980-99-4P 186981-00-0P 186981-01-1P 186981-02-2P 186981-03-3P 186981-04-4P 186981-05-5P 186981-06-6P 186981-07-7P 186981-08-8P 186981-09-9P 186981-10-2P 186981-11-3P 186981-12-4P 186981-13-5P 186981-14-6P 186981-15-7P 186981-16-8P 186981-17-9P 186981-19-1P 186981-20-4P 186981-21-5P 186981-22-6P 186981-24-8P 186981-25-9P 186981-26-0P 186981-27-1P 186981-28-2P 186981-29-3P 186981-30-6P 186981-31-7P 186981-32-8P 186981-33-9P 186981-40-8P 186981-44-2P 186981-45-3P 186981-46-4P 186981-47-5P 186981-48-6P 186981-49-7P 186981-50-0P 186981-51-1P 186981-52-2P 186981-53-3P 186981-54-4P 186981-55-5P 186981-56-6P 186981-57-7P 186981-58-8P 186981-59-9P 186981-60-2P 186981-61-3P 186981-62-4P 186981-63-5P 186981-64-6P 186981-65-7P 186981-66-8P 186981-67-9P 186981-68-0P 186981-69-1P 186981-70-4P 186981-71-5P 186981-72-6P 186981-73-7P 186981-74-8P 186981-75-9P 186981-76-0P 186981-77-1P 186981-78-2P 186981-79-3P 186981-80-6P 186981-81-7P 186981-82-8P 186981-83-9P 186981-84-0P 186981-85-1P 186981-86-2P 186981-87-3P 186981-88-4P 186981-89-5P

186981-92-0P

186981-93-1P

186981-94-2P

186981-95-3P 186981-96-4P 186981-97-5P 186981-98-6P 186981-99-7P 186982-00-3P 186982-01-4P 186982-02-5P 186982-03-6P 186982-04-7P RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation as arthropodicide and fungicide)

186979-75-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation as arthropodicide and fungicide) 186979-75-9 HCAPLUS RN

CN 3H-1,2,4-Triazol-3-one, 4-[2-[[2-[3,5-bis(trifluoromethyl)phenyl]-4pyrimidinyl]oxy]phenyl]-2,4-dihydro-5-methoxy-2-methyl- (CA INDEX NAME)

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS

RECORD (10 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 26 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1998:323238 HCAPLUS Full-text

DOCUMENT NUMBER: 129:4664

ORIGINAL REFERENCE NO.: 129:1120h,1121a

Preparation of fungicidal cyclic amides TITLE:

INVENTOR(S): Walker, Michael Paul

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA: Walker, Michael

Paul

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		D	ATE		
						_									-			
WO	9820	003			A1		1998	0514		WO 1	997-	US17	808		1	9971	001 <	
	W:	AL,	AM,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CN,	CU,	CZ,	EE,	GE,	HU,	
		ID,	IL,	IS,	JP,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LT,	LV,	MD,	MG,	MK,	
		MN,	MX,	NO,	NZ,	PL,	RO,	RU,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TR,	TT,	UA,	
		US,	UZ,	VN,	YU													
	RW:	GH,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	DE,	DK,	ES,	FΙ,	FR,	
		GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GA,	
		GN,	ML,	MR,	ΝE,	SN,	TD,	TG										
IN	1997	CA01	788		A		2005	0311		IN 1	997-	CA17	88		1	9970	924 <	

AU	97466	503			A		19980529	AU	1997-46603		19971001	<
EP	93705	51			A1		19990825	EP	1997-945385		19971001	<
	R:	DE,	ES,	FR,	GB,	IT						
BR	9712	713			A		19991026	BR	1997-12713		19971001	<
CN	1242	167			A		20000126	CN	1997-181160		19971001	<
JP	20015	0342	24		T		20010313	JP	1998-521383		19971001	<
ZA	97089	58			A		19990407	ZA	1997-8958		19971007	<
MX	99040	)66			A		20000131	MX	1999-4066		19990430	<
KR	20000	529	18		A		20000825	KR	1999-703821		19990430	<
PRIORITY	APPI	N. :	INFO	. :				US	1996-29965P	P	19961101	<
								WO	1997-US17608	W	19971001	<
OTHER SC	TIPOR.	(2)			MADI	TAG	129 - 4664					

Entered STN: 30 May 1998

GI

AB The title compds. [I; E = (un)substituted 1,2-phenylene; A = O, S, N, NR5, CR6; G = C, N (provided that when G = C, then A = O, S, NR5 and the floating double bond is attached to G; and when G = N, then A = N, CR6 and the floating double bond is attached to A); W = O, S, NH, N(C1-6 alkyl), NO(C1-6 alkyl); X = OR1, S(O)mR1, halo; Y = O, S(O)n, NR7, etc.; Z = substituted Ph, pyrimidinyl, triazinyl; R1 = C1-6 alkyl, C1-6 haloalkyl, C2-6 alkenyl, etc.; R2 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R5 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R6 = H, halo, C1-6 alkyl, etc.], useful for controlling plant diseases caused by fungal plant pathogens, were prepared Thus, 6-step synthesis of the title compound II, which showed 100% control against Erysiphe graminis f. sp. tritici and Puccinia recondita at 500 g/ha, is described.

ΙI

- IC ICM C07D249-12
- ICS A01N043-653; C07D403-12; A01N043-66; A01N043-707
- 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))
- Section cross-reference(s): 5 ΙT

ΙT	207504-17-4P	207504-18-5P	207504-19-6P		
	207504-20-9P	207504-21-0P	207504-22-1P	207504-23-2P	207504-24-3P
	207504-25-4P	207504-26-5P	207504-27-6P	207504-28-7P	207504-29-8P
	207504-30-1P	207504-31-2P	207504-32-3P	207504-33-4P	207504-34-5P
	207504-35-6P	207504-37-8P	207504-38-9P	207504-39-0P	207504-40-3P
	207504-41-4P	207504-42-5P	207504-43-6P	207504-44-7P	207504-45-8P
	207504-46-9P	207504-47-0P	207504-48-1P	207504-49-2P	207504-50-5P
	207504-51-6P	207504-52-7P	207504-53-8P	207504-54-9P	207504-55-0P
	207504-56-1P	207504-57-2P	207504-58-3P	207504-59-4P	207504-60-7P
	207504-61-8P	207504-62-9P	207504-63-0P	207504-64-1P	207504-65-2P
	207504-66-3P	207504-69-6P	207504-70-9P	207504-71-0P	207504-72-1P
	207504-75-4P	207504-76-5P	207504-77-6P	207504-78-7P	207504-80-1P
	207504-82-3P	207504-84-5P	207504-85-6P	207504-86-7P	207504-87-8P
	207504-88-9P	207504-89-0P	207504-90-3P		
	RL: AGR (Agric	ultural use);	BAC (Biological	activity or eff	ector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of fungicidal cyclic amides)

207504-17-49 207504-18-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of fungicidal cyclic amides)

207504-17-4 HCAPLUS RN

CN 3H-1,2,4-Triazol-3-one, 4-[2-[12-(3,5-dichlorophenyl)-4-pyrimidinyl]oxyl-6methylphenyl]-2,4-dihydro-5-methoxy-2-methyl- (CA INDEX NAME)

207504-18-5 HCAPLUS RN

CN 3H-1,2,4-Triazol-3-one, 4-[2-[[2-(3,5-dichlorophenyl)-4pyrimidinyl]oxy]phenyl]-2,4-dihydro-5-methoxy-2-methyl- (CA INDEX NAME)

REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 27 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1998:154790 HCAPLUS Full-text

DOCUMENT NUMBER: 128:167441 ORIGINAL REFERENCE NO.: 128:33005a,33008a

TITLE: Preparation of herbicidal 2,6-disubstituted pyridines and 2,4-disubstituted pyrimidines

INVENTOR(S): Kleemann, Axel; Baltruschat, Helmut Siegfried; Maier, Thomas; Scheiblich, Stefan

PATENT ASSIGNEE(S): American Cyanamid Co., USA SOURCE: Eur. Pat. Appl., 45 pp.

CODEN: EPXXDW DOCUMENT TYPE: Pat.ent.

LANGUAGE: English FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 823431	A1	19980211	EP 1997-305994	19970806 <
R: AT, BE, CH,	DE, DK,	ES, FR, GE	B, GR, IT, LI, LU, NL,	SE, MC, PT,
IE, SI, LT,	LV, FI,	RO		
US 5849758	A	19981215	US 1996-693422	19960807 <
PRIORITY APPLN. INFO.:			US 1996-693422	A 19960807 <
			US 1995-454044	B2 19950530 <
ASSIGNMENT HISTORY FOR U	S PATENT	AVAILABLE	IN LSUS DISPLAY FORMS	T
OTHER SOURCE(S):	MARPAT	128:167441		
ED Entered STN: 14 Ma	r 1998			

OTHE ED

- AB The title compds. [I; A = (un)substituted aryl, 5-6 membered nitrogencontaining heteroaryl, difluorobenzodioxolyl; m = 0-5; n = 0-2; R1 = H, halo, (un) substituted alkyl, etc.; R2 = H, halo, (un) substituted alkyl, etc.; X = O, S; Z = N, CH; with the proviso that if A = 1-methyl-3-trifluoromethyl-pyrazol-5-yl, n = 0, X = 0 and Z = CH, then R2m does not represent H, 3-CF3, 2,4-Cl2 or 2,4-Me2], useful as herbicides, were prepared. Thus, reaction of 2-bromo-6phenylpyridine with 1-methyl-3-trifluoromethyl-5-hydroxypyrazole in the presence of K2CO3 in DMF afforded 52% I [A = 1-methy1-3trifluoromethylpyrazol-5-yl; X = 0; Z = CH; R1 = R2 = H]. Compound I [A = 1methyl-3-trifluoromethylpyrazol-5-yl; X = O; Z = CH; R1 = H; R2 = 3-CF3] showed complete control against Beta vulgaris and Zea mays in preemergence application at 100 g/ha.
- ΙĊ ICM C07D401-12
- ICS C07D213-643; C07D403-14; A01N043-40; A01N043-54; A01N043-56
- CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
  - Section cross-reference(s): 5
- IΤ 202994-52-3P
  - RL: AGR (Agricultural use); RAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT
  - (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
- (preparation of herbicidal 2,6-disubstituted pyridines and 2,4disubstituted

	pyrimidines	3)			
IT	180606-10-4P	180606-11-5P	180606-12-6P	180606-13-7P	180606-21-7P
	180606-22-8P	180606-23-9P	180606-24-0P	180606-25-1P	180606-26-2P
	180606-27-3P	180606-28-4P	180606-29-5P	180606-30-8P	180606-31-9P
	180606-32-0P	180606-33-1P	180606-34-2P	180606-35-3P	
	180607-16-3P	180607-17-4P	180607-18-5P		
	180607-19-6P	180607-20-9P	180607-21-0P		
	180607-22-1P	180607-23-2P	180607-24-3P		
	180607-25-4P	180607-26-5P	180607-27-6P		
	180607-28-7P	180607-29-8P	180607-30-1P		
	180607-31-2P	180607-32-3P	180607-33-4P		
	180607-34-5P	180607-35-6P	180607-36-7P		

180607-37-8P	180607-39-0P	180607-41-4P		
180607-42-5P	180607-43-6P	180607-44-7P		
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180607-49-2P	180607-50-5P	180607-51-6P		
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180607-55-0P	180607-56-1P	180607-57-2P		
180607-58-3P	180607-59-4P	180607-61-8P		
180607-62-9P				
	180607-63-0P	180607-64-1P		
180607-65-22	180607-66-3P	180607-67-4P		
180607-68-52	180607-69-6P	180607-70-99		
180607-71-0P	180607-72-1P	180607-73-22		
180607-74-3P	180607-75-4P	180607-76-5P		
180607-77-6P	180607-78-7P	180607-79-8P		
180607-80-1P	180607-81-2P	180607-82-3P		
180607-83-4P	180607-84-5P	180607-85-6P		
180607-86-7P	180607-87-8P	180607-88-92		
180607-89-0P	180607-90-3P	180607-92-5P		
180607-94-7P	180607-96-9P	180608-05-3P		
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180608-27-9P	180608-35-9P	202994-50-1P		
202994-53-4P	202994-54-5P	202994-55-6P	202994-56-7P	202994-57-8P
202994-58-9P	202994-60-3P	202994-62-5P	202994-64-7P	
202994-68-1P	202994-69-2P	202994-70-5P		
202994-71-6P	202994-72-7P	202994-73-8P		
202994-74-99	202994-75-0P	202994-76-1P		
202994-77-2P	202994-78-39	202994-79-49		
202994-80-7P	202994-81-89	202994-82-9P		
202994-83-02	202994-84-1P	202994-85-2P		
202994-86-3P	202994-88-52	202994-90-92		
202994-92-1P	202994-94-3P	202994-96-5P		
202994-98-7P	202995-00-4P	202995-01-5P		
202995-02-6P	202995-03-7P	202995-04-8P		
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202995-26-4P	202995-27-5P	202995-28-62		
202995-29-72	202995-30-0P	202995-31-1P		
202995-32-2P	202995-33-3P	202995-34-4P		
202995-35-5P	202995-36-6P	202995-37-72		
202995-38-8P	202995-39-9P	202995-40-2P		
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202995-50-4P	202995-51-5P	202995-52-6P		
202995-53-7P				
RL. AGR (Agric	ultural use): }	[spinolois] OAR	activity or eff	fector.

RI: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of herbicidal 2,6-disubstituted pyridines and 2,4disubstituted

pyrimidines)

IT 456-14-4P, 4-Fluorobenzamidine hydrochloride 879-72-1P,

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β-Dimethylaminopropiophenone hydrochloride
                                         2631-60-9P
                                                    14401-51-5P
16858-20-1P 19006-82-7P 19927-82-3P 19927-83-4P 20680-59-5P
23935-21-9P
           24095-60-1P
                        38980-96-0P
                                     39774-26-0P
                                                  55368-42-8P
                                     68284-01-5P
56302-42-2P 62980-03-4P
                        66744-01-2P
                                                   75207-72-6P
93623-96-2P 97513-47-8P
                        97603-36-6P 97604-07-4P 97604-08-5P
98013-07-1P 107392-33-6P 121219-95-2P
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125904-05-4P
            125904-06-5P
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                           180607-06-1P
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180608-02-0P
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202995-55-9P
            202995-56-0P
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of herbicidal 2.6-disubstituted pyridines and 2.4-

disubstituted pyrimidines)

IT 202994-52-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); RCT

(Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of herbicidal 2,6-disubstituted pyridines and 2,4-

pyrimidines)

disubstituted

RN 202994-52-3 HCAPLUS

CN Pyrimidine, 4-bromo-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

ΙT	180607-16-3P	180607-17-4P	180607-18-5P
	180607-19-6P	180607-20-9P	180607-21-0P
	180607-22-1P	180607-23-2P	180607-24-3P
	180607-25-4P	180607-26-5P	180607-27-6P
	180607-28-7P	180607-29-8P	180607-30-1P
	180607-31-2P	180607-32-3P	180607-33-4P
	180607-34-5P	180607-35-6P	180607-36-7P
	180607-37-8P	180607-39-0P	180607-41-4P
	180607-42-5P	180607-43-6P	180607-44-7P
	180607-45-8P	180607-47-0P	180607-48-1P
	180607-49-2P	180607-50-5P	180607-51-6P

180607-52-7P	180607-53-8P	180607-54-99
180607-55-0P	180607-56-1P	180607-57-2P
180607-58-3P	180607-59-4P	180607-61-8P
180607-62-9P	180607-63-0P	180607-64-1P
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180607-71-0P	180607-72-1P	180607-73-2P
180607-74-3P 180607-77-6P	180607-75-4P 180607-78-7P	180607-76-5P 180607-79-8P
180607-77-69		
180607-80-12	180607-81-2P	180607-82-3P
180607-83-4P	180607-84-5P	180607-85-6P
180607-86-7P	180607-87-8P	180607-88-99
180607-89-0P	180607-90-3P	180607-92-5P
180607-94-72	180607-96-9P	180608-05-3P
180608-07-5P	180608-08-6P	180608-09-7P
180608-10-0P	180608-11-1P	180608-12-2P
180608~13~3P	180608-14-4P	180608-15-5P
180608-16-6P	180608-17-7P	180608-19-9P
180608-20-2P	180608-21-3P	180608-35-9P
202994-50-1P	202994-70-5P	202994-71-6P
202994-72-7P	202994-73-8P	202994-74-99
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202994-78-3P	202994-79-42	202994-80-7P
202994-81-8P	202994-82-9P	202994-83-0P
202994-84-1P	202994-85-2P	202994-86-3P
202994-88-5P	202994-90-9P	202994-92-1P
202994-94-3P	202994-96-5P	202994-98-7P
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202995-42-4P 202995-45-7P	202995-43-5P 202995-46-8P	202995-44-6P
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202995-48-0P	202995-49-1P	202995-50-4P
202995-51-5P	202995-52-6P	

RL: AGR (Agricultural use); BAC (Biological activity or affector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of herbicidal 2,6-disubstituted pyridines and 2,4-disubstituted

## pyrimidines)

RN 180607-16-3 HCAPLUS

CN Pyrimidine, 2-(4-fluorophenyl)-4-methyl-6-[3-(trifluoromethyl)phenoxy](CA INDEX NAME)

RN 180607-17-4 HCAPLUS

CN Pyrimidine, 2-(4-fluorophenyl)-5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-18-5 HCAPLUS

CN Pyrimidine, 2-(4-fluorophenyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-19-6 HCAPLUS

CN Pyrimidine, 4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-20-9 HCAPLUS

CN Pyrimidine, 4-methyl-6-[3-(trifluoromethyl)phenoxy]-2-[4-

(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-21-0 HCAPLUS
- CN Pyrimidine, 5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-22-1 HCAPLUS
- CN Pyrimidine, 5-methyl-4-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-23-2 HCAPLUS
- CN Pyrimidine, 5-methyl-2-(3-methylphenyl)-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-24-3 HCAPLUS

- RN 180607-25-4 HCAPLUS
- CN Pyrimidine, 4-methyl-2-(3-methylphenyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-26-5 HCAPLUS
- CN Pyrimidine, 4-methyl-2-(3-methylphenyl)-6-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

- RN 180607-27-6 HCAPLUS
- CN Pyrimidine, 2-(3-chloropheny1)-5-methy1-4-[(1-methy1-3-(trifluoromethy1)-1H-pyrazo1-5-y1]oxy]- (CA INDEX NAME)

RN 180607-28-7 HCAPLUS

RN 180607-29-8 HCAPLUS

CN Pyrimidine, 2-(3-chlorophenyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-30-1 HCAPLUS

RN 180607-31-2 HCAPLUS

 ${\tt CN \quad Pyrimidine, \ 4-[(2-chloro-4-pyridiny1)oxy]-2-(2,4-difluoropheny1)-5-methyl-1}$ 

(CA INDEX NAME)

$$\bigcap_{i=1}^{Me} \bigcap_{i=1}^{N} \bigcap_{i=1}^{N} \bigcap_{i=1}^{F}$$

RN 180607-32-3 HCAPLUS

CN Pyrimidine, 2-(2,4-difluoropheny1)-4-methy1-6-[[1-methy1-3-(trifluoromethy1)-1H-pyrazol-5-y1]oxy]- (CA INDEX NAME)

RN 180607-33-4 HCAPLUS

CN Pyrimidine, 2-(2,4-difluorophenyl)-4-methyl-6-[3-(trifluoromethyl)phenoxy](CA INDEX NAME)

RN 180607-34-5 HCAPLUS

CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-2-(2,4-difluorophenyl)-6-methyl-(CA INDEX NAME)

- RN 180607-35-6 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-5-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



- RN 180607-36-7 HCAPLUS
- CN Pyrimidine, 4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-37-8 HCAPLUS
- CN Pyrimidine, 4,5-dimethyl-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-39-0 HCAPLUS
- CN Pyrimidine, 4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-41-4 HCAPLUS

CN Pyrimidine, 4,5-dimethyl-6-[3-(trifluoromethyl)phenoxy]-2-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-42-5 HCAPLUS

CN Pyrimidine, 4-methyl-6-[[1-methyl-3-(1,1,2,2,2-pentafluoroethyl)-1Hpyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-43-6 HCAPLUS

CN Pyrimidine, 4-[(2,2-difluoro-1,3-benzodioxol-4-yl)oxy]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

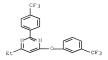
#### 10/595.734

- RN 180607-44-7 HCAPLUS
- CN Pyrimidine, 4-ethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-45-8 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-ethyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-47-0 HCAPLUS
- CN Pyrimidine, 4-(4-fluorophenoxy)-6-methyl-2-[3-(trifluoromethyl)phenyl]-(CA INDEX NAME)

- RN 180607-48-1 HCAPLUS
- CN Pyrimidine, 4-ethyl-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 180607-49-2 HCAPLUS

CN Pyrimidine, 4-(4-fluorophenoxy)-5-methyl-2-[3-(trifluoromethyl)phenyl]-(CA INDEX NAME)

RN 180607-50-5 HCAPLUS

RN 180607-51-6 HCAPLUS

CN Pyrimidine, 2-(4-bromophenyl)-4-methyl-6-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

RN 180607-52-7 HCAPLUS

CN Pyrimidine, 2-[4-(1,1-dimethylethyl)phenyl]-5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-53-8 HCAPLUS

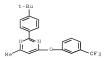
CN Pyrimidine, 2-[4-(1,1-dimethylethyl)phenyl]-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-54-9 HCAPLUS

CN Pyrimidine, 2-[4-(1,1-dimethylethyl)phenyl]-5-methyl-4-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 180607-55-0 HCAPLUS

CN Pyrimidine, 2-[4-(1,1-dimethylethyl)phenyl]-4-methyl-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)



RN 180607-56-1 HCAPLUS

CN Pyrimidine, 2-(4-chlorophenyl)-4-methyl-6-[3-(trifluoromethyl)phenoxy](CA INDEX NAME)

RN 180607-57-2 HCAPLUS

CN Pyrimidine, 2-(4-chlorophenyl)-4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-58-3 HCAPLUS

CN Pyrimidine, 2-(4-chloropheny1)-4-[(2-chloro-4-pyridiny1)oxy]-5,6-dimethyl-(CA INDEX NAME)

- RN 180607-59-4 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4,5-dimethyl-6-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

- RN 180607-61-8 HCAPLUS
- CN Pyrimidine, 2-(3-fluorophenyl)-4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-62-9 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-63-0 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4-[(2-chloro-4-pyridinyl)oxy]-5-methyl-(CA INDEX NAME)

- RN 180607-64-1 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-5-methyl-4-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

- RN 180607-65-2 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-66-3 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4-[(2-chloro-4-pyridinyl)oxy]-6-methyl(CA INDEX NAME)

- RN 180607-67-4 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-2-(3,4-difluorophenyl)-5-methyl-(CA INDEX NAME)

- RN 180607-68-5 HCAPLUS
- CN Pyrimidine, 2-(3,4-difluorophenyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-69-6 HCAPLUS
- CN Pyrimidine, 2-(3,4-difluorophenyl)-4-methyl-6-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

- RN 180607-70-9 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-2-(3,4-difluorophenyl)-6-methyl-(CA INDEX NAME)

- RN 180607-71-0 HCAPLUS
- CN Pyrimidine, 4-[(1,3-dimethyl-1H-pyrazol-5-y1)oxy]-5-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 180607-72-1 HCAPLUS

CN Pyrimidine, 4-[(1,3-dimethyl-1H-pyrazol-5-yl)oxy]-6-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-73-2 HCAPLUS
- CN Pyrimidine, 4-[[3-(1,1-dimethylethyl)-1-methyl-1H-pyrazol-5-yl]oxy]-5-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-74-3 HCAPLUS
- CN Pyrimidine, 4-[[3-(1,1-dimethylethyl)-1-methyl-1H-pyrazol-5-yl]oxy]-6methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-75-4 HCAPLUS

RN 180607-76-5 HCAPLUS

CN Pyrimidine, 4-methyl-2-[4-(trifluoromethoxy)phenyl]-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 180607-77-6 HCAPLUS

CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-6-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 180607-78-7 HCAPLUS

CN Pyrimidine, 5-methyl-2-[4-(trifluoromethoxy)phenyl]-4-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 180607-79-8 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-5-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-80-1 HCAPLUS
- CN Pyrimidine, 4,5-dimethyl-2-[4-(trifluoromethoxy)phenyl]-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 180607-81-2 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-5,6-dimethyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-82-3 HCAPLUS

RN 180607-83-4 HCAPLUS

CN Pyrimidine, 4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 180607-84-5 HCAPLUS

CN Pyrimidine, 5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 180607-85-6 HCAPLUS

CN Pyrimidine, 4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 180607-86-7 HCAPLUS

CN Pyrimidine, 2-(4-chlorophenyl)-4-[(2-chloro-4-pyridinyl)oxy]-6-(methoxymethyl)- (CA INDEX NAME)

- RN 180607-87-8 HCAPLUS
- CN Pyrimidine, 2-(4-chloropheny1)-4-(methoxymethy1)-6-[[1-methy1-3-(trifluoromethy1)-1H-pyrazol-5-y1]oxy]- (CA INDEX NAME)

- RN 180607-88-9 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4-(methoxymethyl)-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 180607-89-0 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-5-methoxy-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

- RN 180607-90-3 HCAPLUS
- CN Pyrimidine, 5-methoxy-4-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-92-5 HCAPLUS
- CN Pyrimidine, 5-chloro-2-(4-chlorophenyl)-4-methoxy-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-94-7 HCAPLUS
- CN Pyrimidine, 5-chloro-2-(4-chlorophenyl)-4-methoxy-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 180607-96-9 HCAPLUS
- CN Pyrimidine, 5-methoxy-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-05-3 HCAPLUS

CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-methoxy-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

RN 180608-07-5 HCAPLUS

CN Pyrimidine, 4-methoxy-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-08-6 HCAPLUS

CN Pyrimidine, 4-methoxy-6-[3-(trifluoromethy1)phenoxy]-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

CN Pyrimidine, 4-(methylthio)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180608-10-0 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-(methylthio)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180608-11-1 HCAPLUS
- CN 4-Pyrimidinamine, N,N-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180608-12-2 HCAPLUS
- CN 4-Pyrimidinamine, N-ethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180608-13-3 HCAPLUS
- CN Pyrimidine, 2-(4-chloropheny1)-4-methoxy-6-[[1-methy1-3-(trifluoromethy1)-1H-pyrazol-5-y1]oxy]- (CA INDEX NAME)

- RN 180608-14-4 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-methoxy-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180608-15-5 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N,N-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180608-16-6 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-6-[[1-methyl-3-(trifluoromethyl)-1Hpyrazol-5-yl]oxy]- (CA INDEX NAME)

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RN 180608-17-7 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxyl- (CA INDEX NAME)

RN 180608-19-9 HCAPLUS

CN Pyrimidine, 4-chloro-2-(4-chlorophenyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180608-20-2 HCAPLUS

CN Pyrimidine, 4-chloro-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180608-21-3 HCAPLUS
- CN Pyrimidine, 4-ethenyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-35-9 HCAPLUS

CN Pyrimidine, 4-fluoro-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202994-50-1 HCAPLUS

CN Pyrimidine, 5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-phenyl- (CA INDEX NAME)

RN 202994-70-5 HCAPLUS

CN Pyrimidine, 4-[(6-chloro-4-pyrimidiny1)oxy]-5-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202994-71-6 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4-(methylthio)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 202994-72-7 HCAPLUS
- CN Pyrimidine, 4-bromo-6-[(2-chloro-4-pyridinyl)oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202994-73-8 HCAPLUS
- CN Pyrimidine, 4-bromo-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202994-74-9 HCAPLUS
- CN Methanimidamide, N'-[2-(4-chlorophenyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-4-pyrimidinyl]-N,N-dimethyl- (CA INDEX NAME)

RN 202994-75-0 HCAPLUS

CN Pyrimidine, 4-ethynyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202994-76-1 HCAPLUS

CN Pyrimidine, 4-(methoxymethyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202994-77-2 HCAPLUS

CN Pyrimidine, 4-[4-fluoro-3-(trifluoromethyl)phenoxy]-6-(methoxymethyl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202994-78-3 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-6-(methoxymethyl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202994-79-4 HCAPLUS
- CN Pyrimidine, 4,5-dichloro-2-(4-chlorophenyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 202994-80-7 HCAPLUS
- CN Pyrimidine, 4-methyl-2-[4-(methylsulfonyl)phenyl]-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 202994-81-8 HCAPLUS
- CN Pyrimidine, 4-methyl-2-[4-(methylsulfonyl)phenyl]-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 202994-82-9 HCAPLUS

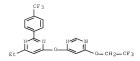
CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-methy1-2-[4-(methylsulfony1)pheny1]- (CA INDEX NAME)

RN 202994-83-0 HCAPLUS

CN Pyrimidine, 4-[(6-chloro-4-pyrimidinyl)oxy]-6-ethyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202994-84-1 HCAPLUS

CN Pyrimidine, 4-ethyl-6-[[6-(2,2,2-trifluoroethoxy)-4-pyrimidinyl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN

202994-85-2 HCAPLUS
Pyrimidine, 4-[(2,6-dichloro-4-pyridiny1)oxy]-6-ethy1-2-[4-CN (trifluoromethyl)phenyl]- (CA INDEX NAME)

202994-86-3 HCAPLUS RN

CN Pyrimidine, 4-ethyl-6-[4-fluoro-3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

202994-88-5 HCAPLUS

CN Pyrimidine, 4-chloro-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202994-90-9 HCAPLUS
- CN Pyrimidine, 4-chloro-6-[(2-chloro-4-pyridinyl)oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202994-92-1 HCAPLUS
- CN Pyrimidine, 4-chloro-6-[[1-methyl-3-(1,1,2,2,2-pentafluoroethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202994-94-3 HCAPLUS
- CN Pyrimidine, 4-[[2-(difluoromethoxy)-4-pyridiny1]oxy]-6-methy1-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

- RN 202994-96-5 HCAPLUS
- CN 4-Pyrimidinamine, N-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202994-98-7 HCAPLUS

CN Pyrimidine, 4-ethoxy-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-00-4 HCAPLUS

CN Pyrimidine, 4-(2-fluoroethoxy)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-01-5 HCAPLUS

CN Pyrimidine, 4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(2,2,2trifluoroethoxy)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-02-6 HCAPLUS

CN Pyrimidine, 4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(2propen-1-yloxy)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-03-7 HCAPLUS
- CN Pyrimidine, 4,5-diethoxy-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-04-8 HCAPLUS
- CN Pyrimidine, 4-(methoxymethyl)-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-05-9 HCAPLUS
- CN 4-Pyrimidineacetonitrile, 6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-06-0 HCAPLUS
- CN Pyrimidine, 4-hydrazinyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-07-1 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-fluoro-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

- RN 202995-08-2 HCAPLUS
- CN Pyrimidine, 4-iodo-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

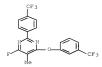
- RN 202995-09-3 HCAPLUS
- CN Pyrimidine, 2-[4-(dichloromethyl)phenyl]-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 202995-10-6 HCAPLUS
- $\begin{tabular}{ll} {\tt CN} & {\tt Pyrimidine, 4-(difluoromethoxy)-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME) \end{tabular}$

- RN 202995-11-7 HCAPLUS
- CN Pyrimidine, 4-chloro-5-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-12-8 HCAPLUS
- CN Pyrimidine, 4-fluoro-5-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-13-9 HCAPLUS
- CN Pyrimidine, 4-fluoro-5-methyl-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 202995-14-0 HCAPLUS

CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-fluoro-5-methy1-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

RN 202995-15-1 HCAPLUS

CN Pyrimidine, 4-methyl-2-[4-(trifluoromethyl)phenyl]-6-[[2-(trifluoromethyl)-4-pyridinyl]oxy]- (CA INDEX NAME)

RN 202995-16-2 HCAPLUS

CN Benzonitrile, 4-[4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-pyrimidinyl]- (CA INDEX NAME)

RN 202995-17-3 HCAPLUS

CN Pyrimidine, 5-chloro-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-18-4 HCAPLUS

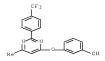
CN Pyrimidine, 4-methyl-6-[[2-(2,2,2-trifluoroethoxy)-4-pyridinyl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-19-5 HCAPLUS

CN Pyrimidine, 4-chloro-6-[[2-(difluoromethoxy)-4-pyridinyl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-20-8 HCAPLUS

CN Benzonitrile, 3-[[6-methyl-2-[4-(trifluoromethyl)phenyl]-4pyrimidinyl]oxy]- (CA INDEX NAME)



RN 202995-21-9 HCAPLUS

CN Pyrimidine, 5-(1-methylethyl)-4-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-22-0 HCAPLUS

CN Pyrimidine, 4-methoxy-2-[4-(trifluoromethyl)phenyl]-6-[[2-(trifluoromethyl)-4-pyridinyl]oxy]- (CA INDEX NAME)

RN 202995-23-1 HCAPLUS

CN Pyrimidine, 5-methyl-2-[4-(trifluoromethyl)phenyl]-4-[[2-(trifluoromethyl)-4-pyridinyl]oxy]- (CA INDEX NAME)

RN 202995-24-2 HCAPLUS

CN Pyrimidine, 4-chloro-2-[4-(trifluoromethyl)phenyl]-6-[[2-(trifluoromethyl)4-pyridinyl]oxy]- (CA INDEX NAME)

RN 202995-25-3 HCAPLUS

CN Pyrimidine, 2-[3,4-bis(trifluoromethyl)phenyl]-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 202995-26-4 HCAPLUS

CN Pyrimidine, 2-[3,4-bis(trifluoromethyl)phenyl]-4-methyl-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 202995-27-5 HCAPLUS

CN Pyrimidine, 2-[3,4-bis(trifluoromethyl)phenyl]-4-[(2-chloro-4-pyridinyl)oxy]-6-methyl- (CA INDEX NAME)

- RN 202995-28-6 HCAPLUS
- CN Pyrimidine, 4-(difluoromethoxy)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-29-7 HCAPLUS
- CN Pyrimidine, 4-[[2-(difluoromethoxy)-4-pyridinyl]oxy]-6-methoxy-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-30-0 HCAPLUS
- CN Pyrimidine, 4-[[2-(difluoromethoxy)-4-pyridinyl]oxy]-5-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-31-1 HCAPLUS
- CN Pyrimidine, 4-chloro-6-[[2-(2,2,2-trifluoroethoxy)-4-pyridinyl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-32-2 HCAPLUS

CN Pyrimidine, 4-methoxy-6-[[2-(2,2,2-trifluoroethoxy)-4-pyridiny1]oxy]-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

RN 202995-33-3 HCAPLUS

CN Pyrimidine, 5-methyl-4-[[2-(2,2,2-trifluoroethoxy)-4-pyridinyl]oxy]-2-[4(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-34-4 HCAPLUS

CN Pyrimidine, 5-methyl-4-[3-(trifluoromethoxy)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-35-5 HCAPLUS

CN Pyrimidine, 4-methyl-6-[3-(trifluoromethoxy)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-36-6 HCAPLUS

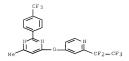
CN 2-Pyridinecarbonitrile, 4-[[5-methyl-2-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]oxy]- (CA INDEX NAME)

RN 202995-37-7 HCAPLUS

CN Pyrimidine, 5-methyl-4-[[2-(1,1,2,2,2-pentafluoroethyl)-4-pyridinyl]oxy]-2[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-38-8 HCAPLUS

CN Pyrimidine, 4-methyl-6-[[2-(1,1,2,2,2-pentafluoroethyl)-4-pyridinyl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 202995-39-9 HCAPLUS

CN Pyrimidine, 4-(methoxymethyl)-2-[4-(trifluoromethyl)phenyl]-6-[[2-(trifluoromethyl)-4-pyridinyl]oxy]- (CA INDEX NAME)

RN 202995-40-2 HCAPLUS

CN Pyrimidine, 4-methoxy-6-[[2-(1,1,2,2,2-pentafluoroethyl)-4-pyridinyl]oxy]2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 202995-41-3 HCAPLUS

CN Pyrimidine, 4-ethyl-2-[4-(trifluoromethyl)phenyl]-6-[[2-(trifluoromethyl)4-pyridinyl]oxy]- (CA INDEX NAME)

- RN 202995-42-4 HCAPLUS
- CN Pyrimidine, 4-ethyl-6-[[2-(2,2,2-trifluoroethoxy)-4-pyridinyl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-43-5 HCAPLUS
- CN Pyrimidine, 4-[[2-(difluoromethoxy)-4-pyridinyl]oxy]-6-ethyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-44-6 HCAPLUS
- CN Pyrimidine, 4-[[2-(difluoromethoxy)-4-pyridinyl]oxy]-6-(methoxymethyl)-2[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-45-7 HCAPLUS
- CN Pyrimidine, 4-(methoxymethyl)-6-[[2-(2,2,2-trifluoroethoxy)-4pyridinyl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-46-8 HCAPLUS
- CN Pyrimidine, 4-[[2-[(difluoromethyl)thio]-4-pyridinyl]oxy]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-47-9 HCAPLUS
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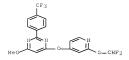
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- CN Pyrimidine, 4-ethyl-6-[[2-(2,2,2-trifluoroethyl)-4-pyridinyl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-49-1 HCAPLUS
- CN Pyrimidine, 4-(methoxymethyl)-6-[[2-(2,2,2-trifluoroethyl)-4-pyridinyl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-50-4 HCAPLUS
- CN Pyrimidine, 4-methyl-6-[[2-(1,1,2,2-tetrafluoroethyl)-4-pyridinyl]oxy]-2[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-51-5 HCAPLUS
- CN Pyrimidine, 5-methyl-4-[[2-(1,1,2,2-tetrafluoroethyl)-4-pyridinyl]oxy]-2[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 202995-52-6 HCAPLUS
- CN Pyrimidine, 4-[[2-[(difluoromethyl)thio]-4-pyridinyl]oxy]-6-methoxy-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



IT 180608-02-0P

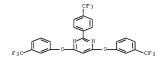
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of herbicidal 2,6-disubstituted pyridines and 2,4-

disubstituted

pyrimidines)

RN 180608-02-0 HCAPLUS

CN Pyrimidine, 4,6-bis[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 28 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:544043 HCAPLUS Full-text
DOCUMENT NUMBER: 125:195679

ORIGINAL REFERENCE NO.: 125:36658h,36659a

TITLE: Herbicidal 2.6-disubstituted pyridines and

2,4-disubstituted pyrimidines

INVENTOR(S): Kleemann, Axel; Baltruschat, Helmut S.; Huelsen,

Thekla; Maier, Thomas; Scheiblich, Stefan PATENT ASSIGNEE(S): American Cyanamid Company, USA; BASF

Aktiengesellschaft

SOURCE: Eur. Pat. Appl., 38 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 723960	B1	20030402		

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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 125:195679

ED Entered STN: 12 Sep 1996

GI

AB New pyridine and pyrimidine derivs, are disclosed, specifically I [A = (un)substituted aryl or (un)substituted 5- or 6-membered N-containing heteroarom, group or difluorobenzodioxolyl; m = 0-5; n = 0-2; R1 (or each R1) = H, halo, (un)substituted alkvl, alkenvl, alkvnvl, alkoxv, (di)alkoxvalkvl, alkoxyalkoxy, alkylthio, (di)(alkyl)amino, alkoxyamino, formamidino; R2 (or each R2) = H, halo, (un)substituted alk(en/yn)yl, alkoxy, alkylthio, alkylsulfonyl, alkylsulfinyl, NO2, cyano, haloalkyl, haloalkoxy, haloalkylthio; X = O or S; Z = N or CH; with proviso that if A = 1-methyl-3trifluoromethylpyrazol-5-y1, n = 0, X = 0 and Z = CH, then (R2)m  $\neq$  H or 3-CF3 or 2,4-di-Cl or 2,4-di-Me]. I can be prepared by conventional methods, and are particularly useful as herbicides. Over 200 synthetic examples, including I and their intermediates, are given. For instance, etherification of 2-(4fluorophenvl)-4-chloro-6-methylpyridine (preparation given) with 3-HOC6H4CF3 using K2CO3 in refluxing DMF gave 56.4% title compound II [R2 = F]. The similarly prepared compound II [R2 = CF3] at 300 g/ha preemergence gave complete (9/9) or nearly complete (8/9) control of 10 weeds including Echinochloa crus-galli and Setaria viridis.

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TC
    ICM C07D213-00
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ICS C07D401-12; C07D213-66; C07D213-64; C07D213-68; C07D239-34; C07D403-12; A01N043-40; A01N043-54; C07D403-14; C07D405-12

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 5

ΙT 180607-98-1P 180608-18-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); RCT

(Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of disubstituted pyridines and pyrimidines as herbicides) 180606-10-4P 180606-11-5P 180606-12-6P 180606-13-7P 180606-21-7P ΙT 180606-26-2P 180606-22-8P 180606-23-9P 180606-24-0P 180606-25-1P 180606-27-3P 180606-28-4P 180606-29-5P 180606-30-8P 180606-31-9P 180606-32-0P 180606-33-1P 180606-34-2P 180606-35-3P 180607-18-5P 180607-16-3P 180607-17-4P 180607-21-0P 180607-19-6P 180607-20-9P 180607-22-1P 180607-23-2P 180607-24-3P 180607-26-5P 180607-27-6P 180607-25-4P 180607-29-8P 180607-28-7P 180607-30-1P 180607-33-4P 180607-31-2P 180607-32-3P 180607-34-5P 180607-35-6P 180607-36-79 180607-41-4P 180607-37-8P 180607-39-0P 180607-42-5P 180607-43-6P 180607-48-1P 180607-45-8P 180607-47-0P 180607-49-2P 180607-50-5P 180607-51-6P 180607-52-7P 180607-53-8P 180607-54-9P 180607-56-1P 180607-58-3P 180607-59-49 180607-60-7P 180607-61-8P 180607-62-99 180607-63-0P 180607-65-2P 180607-64-1P 180607-66-3P 180607-67-4P 180607-68-5P 180607-69-6P 180607-70-9P 180607-71-0P 180607-72-1P 180607-74-3P 180607-73-2P 180607-75-49 180607-76-5P 180607-77-6P 180607-79-8P 180607-80-1P 180607-81-2P 180607-82-3P 180607-84-5P 180607-83-4P 180607-85-6P 180607-86-7P 180607-87-8P 180607-88-9P 180607-89-0P 180607-90-3P 180607-94-79 180607-92-5P 180607-96-99 180608-00-8P 180608-02-0P 180608-04-2E 180608-05-3P 180608-07-5P 180608-08-6P 180608-09-7P 180608-10-0P 180608-12-2P 180608-14-4P 180608-13-3P 180608-15-5P 180608-16-6P 180608-17-7P 180608-19-9P 180608-20-2P 180608-21-3P 180608-22-4P 180608-23-5P 180608-24-6P 180608-25-7P 180608-26-8P 180608-27-9P 180608-28-0P 180608-29-1P 180608-30-4P 180608-31-5P 180608-32-6P 180608-33-7P 180608-34-8P 180608-35-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector. except adverse); BSU (Biological study, unclassified); SPN (Synthetic

preparation): BIOL (Biological study): PREP (Preparation): USES (Uses) (preparation of disubstituted pyridines and pyrimidines as herbicides)

180608-18-8P 180607-98-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT

(Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of disubstituted pyridines and pyrimidines as herbicides)

- RN 180607-98-1 HCAPLUS
- CN Pyrimidine, 4,6-bis[(2-chloro-4-pyridinyl)oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180608-18-8 HCAPLUS
- CN Pyrimidine, 4-bromo-2-(4-chlorophenyl)-6-[[1-methyl-3-(trifluoromethyl)-1Hpyrazol-5-yl]oxyl- (CA INDEX NAME)

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	180607-25-4P	180607-26-5P	180607-27-6P
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of disubstituted pyridines and pyrimidines as herbicides) RN 18867-16-3 HCAPLUS

CN Pyrimidine, 2-(4-fluorophenyl)-4-methyl-6-[3-(trifluoromethyl)phenoxy](CA INDEX NAME)

- RN 180607-17-4 HCAPLUS
- CN Pyrimidine, 2-(4-fluorophenyl)-5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-18-5 HCAPLUS
- CN Pyrimidine, 2-(4-fluorophenyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-19-6 HCAPLUS
- CN Pyrimidine, 4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazo1-5-yl]oxy]-

2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-20-9 HCAPLUS

CN Pyrimidine, 4-methyl-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-21-0 HCAPLUS

CN Pyrimidine, 5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-22-1 HCAPLUS

CN Pyrimidine, 5-methyl-4-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-23-2 HCAPLUS

CN Pyrimidine, 5-methyl-2-(3-methylphenyl)-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-24-3 HCAPLUS

CN Pyrimidine, 5-methyl-2-(3-methylphenyl)-4-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

RN 180607-25-4 HCAPLUS

CN Pyrimidine, 4-methyl-2-(3-methylphenyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-26-5 HCAPLUS

CN Pyrimidine, 4-methyl-2-(3-methylphenyl)-6-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

RN 180607-27-6 HCAPLUS

CN Pyrimidine, 2-(3-chlorophenyl)-5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-28-7 HCAPLUS

CN Pyrimidine, 2-(3-chlorophenyl)-5-methyl-4-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

180607-29-8 HCAPLUS
Pyrimidine, 2-(3-chlorophenyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-CN 1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-30-1 HCAPLUS

Pyrimidine, 2-(2,4-difluorophenyl)-5-methyl-4-[3-(trifluoromethyl)phenoxy]-CN

(CA INDEX NAME)

$$\bigcup_{CF3}^{Me} \bigcap_{N} \bigcap_{F}^{F}$$

RN 180607-31-2 HCAPLUS

CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-2-(2,4-difluoropheny1)-5-methyl-(CA INDEX NAME)

RN 180607-32-3 HCAPLUS

CN Pyrimidine, 2-(2,4-difluorophenyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-33-4 HCAPLUS

- RN 180607-34-5 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-2-(2,4-difluorophenyl)-6-methyl-(CA INDEX NAME)

- RN 180607-35-6 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-5-methyl-2-[4-(trifluoromethy1)phenyl]- (CA INDEX NAME)

- RN 180607-36-7 HCAPLUS
- CN Pyrimidine, 4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-37-8 HCAPLUS
- CN Pyrimidine, 4,5-dimethyl-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-39-0 HCAPLUS

CN Pyrimidine, 4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-41-4 HCAPLUS

CN Pyrimidine, 4,5-dimethyl-6-[3-(trifluoromethyl)phenoxy]-2-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-42-5 HCAPLUS

CN Pyrimidine, 4-methyl-6-[[1-methyl-3-(1,1,2,2,2-pentafluoroethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-43-6 HCAPLUS
- CN Pyrimidine, 4-[(2,2-difluoro-1,3-benzodioxol-4-y1)oxy]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-44-7 HCAPLUS
- CN Pyrimidine, 4-ethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- 2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-45-8 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-ethyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-47-0 HCAPLUS
- CN Pyrimidine, 4-(4-fluorophenoxy)-6-methyl-2-[3-(trifluoromethyl)phenyl]-(CA INDEX NAME)

RN 180607-48-1 HCAPLUS

CN Pyrimidine, 4-ethyl-6-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180607-49-2 HCAPLUS

CN Pyrimidine, 4-(4-fluorophenoxy)-5-methyl-2-[3-(trifluoromethyl)phenyl]-(CA INDEX NAME)

RN 180607-50-5 HCAPLUS

CN Pyrimidine, 2-(4-bromophenyl)-5-methyl-4-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

- RN 180607-51-6 HCAPLUS
- CN Pyrimidine, 2-(4-bromophenyl)-4-methyl-6-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

- RN 180607-52-7 HCAPLUS
- CN Pyrimidine, 2-[4-(1,1-dimethylethyl)phenyl]-5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-53-8 HCAPLUS
- CN Pyrimidine, 2-[4-(1,1-dimethylethyl)phenyl]-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-54-9 HCAPLUS
- CN Pyrimidine, 2-[4-(1,1-dimethylethyl)phenyl]-5-methyl-4-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 180607-55-0 HCAPLUS

CN Pyrimidine, 2-[4-(1,1-dimethylethyl)phenyl]-4-methyl-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 180607-56-1 HCAPLUS

CN Pyrimidine, 2-(4-chlorophenyl)-4-methyl-6-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

RN 180607-57-2 HCAPLUS

CN Pyrimidine, 2-(4-chlorophenyl)-4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-58-3 HCAPLUS
- CN Pyrimidine, 2-(4-chloropheny1)-4-[(2-chloro-4-pyridiny1)oxy]-5,6-dimethyl-(CA INDEX NAME)

- RN 180607-59-4 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4,5-dimethyl-6-[3-(trifluoromethyl)phenoxy](CA INDEX NAME)

- RN 180607-61-8 HCAPLUS
- CN Pyrimidine, 2-(3-fluorophenyl)-4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-62-9 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

RN 180607-63-0 HCAPLUS

CN Pyrimidine, 2-(4-chloropheny1)-4-[(2-chloro-4-pyridiny1)oxy]-5-methyl-(CA INDEX NAME)

RN 180607-64-1 HCAPLUS

CN Pyrimidine, 2-(4-chlorophenyl)-5-methyl-4-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

RN 180607-65-2 HCAPLUS

CN Pyrimidine, 2-(4-chlorophenyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-66-3 HCAPLUS
- CN Pyrimidine, 2-(4-chloropheny1)-4-[(2-chloro-4-pyridiny1)oxy]-6-methyl-(CA INDEX NAME)

- RN 180607-67-4 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-2-(3,4-difluorophenyl)-5-methyl-(CA INDEX NAME)

- RN 180607-68-5 HCAPLUS
- CN Pyrimidine, 2-(3,4-difluorophenyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-69-6 HCAPLUS
- CN Pyrimidine, 2-(3,4-difluorophenyl)-4-methyl-6-[3-(trifluoromethyl)phenoxy]-(CA INDEX NAME)

- RN 180607-70-9 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-2-(3,4-difluorophenyl)-6-methyl(CA INDEX NAME)

- RN 180607-71-0 HCAPLUS
- CN Pyrimidine, 4-[(1,3-dimethyl-1H-pyrazol-5-yl)oxy]-5-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-72-1 HCAPLUS
- CN Pyrimidine, 4-[(1,3-dimethyl-1H-pyrazol-5-yl)oxy]-6-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-73-2 HCAPLUS
- CN Pyrimidine, 4-[[3-(1,1-dimethylethyl)-1-methyl-1H-pyrazol-5-yl]oxy]-5-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-74-3 HCAPLUS
- CN Pyrimidine, 4-[[3-(1,1-dimethylethyl)-1-methyl-1H-pyrazol-5-yl]oxy]-6-

methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-75-4 HCAPLUS
- CN Pyrimidine, 4-[[3-(1,1-dimethylethyl)-1-methyl-1H-pyrazol-5-yl]oxy]-6methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-76-5 HCAPLUS
- CN Pyrimidine, 4-methyl-2-[4-(trifluoromethoxy)phenyl]-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 180607-77-6 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-6-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-78-7 HCAPLUS
- CN Pyrimidine, 5-methyl-2-[4-(trifluoromethoxy)phenyl]-4-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 180607-79-8 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-5-methyl-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-80-1 HCAPLUS
- CN Pyrimidine, 4,5-dimethyl-2-[4-(trifluoromethoxy)phenyl]-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 180607-81-2 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-5,6-dimethy1-2-[4-(trifluoromethoxy)pheny1]- (CA INDEX NAME)

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- RN 180607-82-3 HCAPLUS

- RN 180607-83-4 HCAPLUS
- CN Pyrimidine, 4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-84-5 HCAPLUS
- CN Pyrimidine, 5-methyl-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-85-6 HCAPLUS
- CN Pyrimidine, 4,5-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

- RN 180607-86-7 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4-[(2-chloro-4-pyridinyl)oxy]-6-(methoxymethyl)- (CA INDEX NAME)

- RN 180607-87-8 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4-(methoxymethyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-88-9 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4-(methoxymethyl)-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

- RN 180607-89-0 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-5-methoxy-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

- RN 180607-90-3 HCAPLUS
- CN Pyrimidine, 5-methoxy-4-[3-(trifluoromethyl)phenoxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180607-92-5 HCAPLUS
- CN Pyrimidine, 5-chloro-2-(4-chlorophenyl)-4-methoxy-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180607-94-7 HCAPLUS
- CN Pyrimidine, 5-chloro-2-(4-chlorophenyl)-4-methoxy-6-[3-(trifluoromethyl)phenoxy]- (CA INDEX NAME)

RN 180607-96-9 HCAPLUS

CN Pyrimidine, 5-methoxy-4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-00-8 HCAPLUS

CN Pyrimidine, 4,6-bis[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-02-0 HCAPLUS

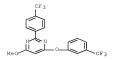
CN Pyrimidine, 4,6-bis[3-(trifluoromethy1)phenoxy]-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

- RN 180608-04-2 HCAPLUS
- CN Pyrimidine, 2-(4-chlorophenyl)-4,6-bis[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180608-05-3 HCAPLUS
- CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-methoxy-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

- RN 180608-07-5 HCAPLUS
- CN Pyrimidine, 4-methoxy-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180608-08-6 HCAPLUS
- CN Pyrimidine, 4-methoxy-6-[3-(trifluoromethy1)phenoxy]-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)



RN 180608-09-7 HCAPLUS

CN Pyrimidine, 4-(methylthio)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-10-0 HCAPLUS

CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-(methylthio)-2-[4-(trifluoromethy1)pheny1]- (CA INDEX NAME)

RN 180608-11-1 HCAPLUS

CN 4-Pyrimidinamine, N,N-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

CN 4-Pyrimidinamine, N-ethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

- RN 180608-13-3 HCAPLUS
- CN Pyrimidine, 2-(4-chloropheny1)-4-methoxy-6-[[1-methy1-3-(trifluoromethy1)-1H-pyrazo1-5-y1]oxy]- (CA INDEX NAME)

- RN 180608-14-4 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-methoxy-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180608-15-5 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N,N-dimethyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxyl- (CA INDEX NAME)

- RN 180608-16-6 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-6-[[1-methyl-3-(trifluoromethyl)-1Hpyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180608-17-7 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-N-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxyl- (CA INDEX NAME)

- RN 180608-19-9 HCAPLUS
- CN Pyrimidine, 4-chloro-2-(4-chlorophenyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (CA INDEX NAME)

- RN 180608-20-2 HCAPLUS
- CN Pyrimidine, 4-chloro-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-21-3 HCAPLUS

CN Pyrimidine, 4-ethenyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-22-4 HCAPLUS

CN Pyrimidine, 4-[(2-chloro-4-pyridinyl)oxy]-5,6-dimethyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-23-5 HCAPLUS

CN Pyrimidine, 4-[(2-chloro-4-pyridiny1)oxy]-6-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-29-1 HCAPLUS

CN Benzonitrile, 4-[4-methyl-6-[[1-methyl-3-(1,1,2,2,2-pentafluoroethyl)-1H-pyrazol-5-yl]oxy]-2-pyrimidinyl]- (CA INDEX NAME)

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RN 180608-30-4 HCAPLUS

CN Benzonitrile, 4-[4-methoxy-6-[[1-methyl-3-(1,1,2,2,2-pentafluoroethyl)-1H-pyrazol-5-yl]oxy]-2-pyrimidinyl]- (CA INDEX NAME)

RN 180608-31-5 HCAPLUS

CN Pyrimidine, 4-methyl-6-[[1-methyl-3-(1,1,2,2,2-pentafluoroethyl)-1Hpyrazol-5-yl]oxy]-2-[4-(methylsulfonyl)phenyl]- (CA INDEX NAME)

RN 180608-32-6 HCAPLUS

CN Pyrimidine, 4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(2-propyn-1-yl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-33-7 HCAPLUS

CN Pyrimidine, 4-[3-(trifluoromethy1)phenoxy]-2-[4-(trifluoromethy1)pheny1]-(CA INDEX NAME)



RN 180608-34-8 HCAPLUS

CN Pyrimidine, 4-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 180608-35-9 HCAPLUS

CN Pyrimidine, 4-fluoro-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

L52 ANSWER 29 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1994:508818 HCAPLUS Full-text

DOCUMENT NUMBER: 121:108818

ORIGINAL REFERENCE NO.: 121:19655a,19658a

TITLE: Pesticidal pyrimidine compounds

INVENTOR(S): Munro, David; Davis, Royston; Day, Janet Anne; Wilkin,

Jacqueline Ann; Wood, William Wakefield

PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V.,

Neth.

SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2
TYPE: Patent

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.				KIND DATE		APPLICATION NO.												
									WO 1993-EP1880									
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		SE,	SK,	UA,	US,	VN												
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										WO 1	1993-1	EP18	80		W 1	9930	715	<

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 121:108818

ED Entered STN: 03 Sep 1994

GI

AB Title compds. I (X1, X2 = 0, S(0)n, n = 0-2, C0, CH2, NR, R = H, alkyl; R1, R10 = H, halo; R2, R9 = H, halo, cyano, nitro, alkyl, haloalkyl, alkoxy, alkylthio, amino, mono- or di-alkylamino, alkoxyalkyl, haloalkoxyalkyl, alkoxycarbonyl; R3, R8 = H, Cl, alkyl, haloalkyl, haloalkoxyl, haloalkoxy, haloalkoxycarbonyl, haloalkylthio, haloalkyl, haloalkylsulfinyl, haloalkylsulfinyl, haloalkylsulfinyl, nitro, cyano; R4, R7 = H, halo, alkyl, alkoxy; R5 = H, halo, cyano, alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfinyl, Ph; R6 = H, or when R5 = H, alkyl; provided that either each Ph is unsubstituted or at least one of R3 and R8 is not hydrogen), having useful

pesticidal activity, were prepared Thus, condensation of 4-chloro-3trifluoromethylphenol with 4,6-dichloropyrimidine in the presence of K2CO3 in DMSO gave 94% title compound, 4,6-bis(4-chloro-3trifluoromethylphenoxy)pyrimidine. The prepared compds. were tested for acaricidal, insecticidal, and ectoparasiticidal activities (with data).

ICM C07D239-52 ICS C07D239-58; C07D239-48; C07D239-60; A01N043-54

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

ΙT

Section cross-	reference(s): 5			
156591-82-1P	156591-83-2P	156591-84-3P	156591-85-4P	156591-86-5P
156591-87-6P	156591-88-7P	156591-89-8P	156591-90-1P	156591-91-2P
156591-92-3P	156591-93-4P	156591-94-5P	156591-95-6P	156591-96-7P
156591-97-8P	156591-98-9P	156591-99-0P	156592-00-6P	156592-01-7P
156592-02-8P	156592-03-9P	156592-04-0P	156592-05-1P	156592-06-2P
156592-07-3P	156592-08-4P	156592-09-5P	156592-10-8P	156592-11-9P
156592-12-0P	156592-13-1P	156592-14-2P	156592-15-3P	
156592-16-4P	156592-17-5P	156592-18-6P	156592-19-7P	
156592-20-09	156592-21-1P	156592-22-2P	156592-23-3P	
156592-24-4P	156592-25-5P	156592-26-6P	156592-27-7P	156592-28-8P
156592-29-9P	156592-30-2P	156592-31-3P	156592-32-4P	156592-33-5P
156592-34-6P	156592-35-7P	156592-36-8P	156592-37-9P	156592-38-0P
156592-39-1P	156592-40-4P	156592-41-5P	156592-42-6P	156592-43-7P
156592-44-8P	156592-45-9P			

RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and pesticidal activity of)

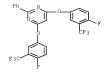
TТ 156592-13-1P 156592-20-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and pesticidal activity of)

RN 156592-13-1 HCAPLUS

CN Pyrimidine, 2-phenyl-4,6-bis[3-(trifluoromethyl)phenoxyl- (CA INDEX NAME)

- RN 156592-20-0 HCAPLUS
- CN Pyrimidine, 4,6-bis[4-fluoro-3-(trifluoromethyl)phenoxy]-2-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS

RECORD (15 CITINGS)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 30 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1995:75794 HCAPLUS Full-text 122:55996

DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.: 122:10851a,10854a

TITLE: Studies of cerebral protective agents. VI. Synthesis

of novel 4-(4-nitrobenzovl)pyrimidine and related compounds with antianoxic activity

AUTHOR(S): Ohkubo, Mitsuru; Kuno, Atsushi; Sakai, Hiroyoshi;

Sugiyama, Yoshie; Takasugi, Hisashi

CORPORATE SOURCE: New Drug Res. Lab., Fujisawa Pharmaceutical Co., Ltd., Osaka, 532, Japan

Chemical & Pharmaceutical Bulletin (1994),

42(6), 1279-85

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

Entered STN: 08 Nov 1994

SOURCE .

AB Novel pyrimidine derivs., possessing linkages between the aryl group and the pyrimidine nucleus an the C-4 position, were prepared and tested for antianoxic activity in mice. Among them, 5-(4-methylpiperazin-1-ylcarbonyl)-4-(4-nitrobenzoyl)-2-phenylpyrimidine (FR 76659) (I) possessed significant antianoxic activity (10-100 mg/kg, i.p.) with low acute toxicity (LD50 > 1000 mg/kg, i.p.). Structure-activity relationship in regard to antianoxic activity of this series of compds, were examined

28-17 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1

103294-21-9DP, analogs and derivs. 116904-25-7P 116904-26-8P 116904-27-9P 116904-28-0P

116904-30-4P 116904-35-9P 116904-53-1P 116904-57-5P 116904-65-5P 116904-66-6P 116904-68-8P 116904-67-7P 116904-69-9P 116924-79-99 116924-80-2P 159970-99-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL

(Biological study); PREP (Preparation)

(preparation of antianoxic cerebral protective agent

[(pyrimidinyl)carbonyl]piperazine)

116904-36-0P 116904-37-1P 62088-12-4P 76842-84-7P 116904-40-6P 116904-38-2P 116904-39-3P 116904-44-0P 116904-41-7P 116904-43-9P

116904-45-1P 116904-47-3P 116904-48-4P 116904-51-99 116904-52-0P 116904-54-2P 116904-55-3P 116904-61-1P 116904-62-2F 116904-64-4P 116904-63-3P 116904-71-3P 159971-02-5P 159971-00-3P 159971-01-4P 159971-05-8P 159971-06-9P 159971-07-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

159971-04-7P

(preparation of antianoxic cerebral protective agent [(pvrimidinvl)carbonvl]piperazine)

103294-21-9DP, analogs and derivs.

116904-25-7P 116904-27-9P 116904-28-0P 116904-35-99 116904-30-4P 116904-53-1P 116904-57-5P 116904-65-5P 116904-66-6P 116904-67-7P 116904-68-8P 116904-69-9P 116924-79-9P 116924-80-2P 159970-99-7P

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of antianoxic cerebral protective agent [(pyrimidinyl)carbonyl]piperazine)

103294-21-9 HCAPLUS

CN Methanone, [4-methyl-6-(3-nitrophenyl)-2-phenyl-5-pyrimidinyl](4-methyl-1piperazinyl) - (CA INDEX NAME)

RN

- 116904-25-7 HCAPLUS RN
- Piperazine, 1-methyl-4-[[4-(4-nitrobenzov1)-2-phenyl-5-CN pvrimidinvl[carbonvl]- (9CI) (CA INDEX NAME)

RN 116904-26-8 HCAPLUS

CN Methanone, [4-methyl-6-[(4-nitrophenyl)thio]-2-phenyl-5-pyrimidinyl](4-methyl-1-piperazinyl)- (CA INDEX NAME)

RN 116904-27-9 HCAPLUS

CN Methanone, [4-methyl-6-[(2-nitrophenyl)thio]-2-phenyl-5-pyrimidinyl](4methyl-1-piperazinyl)- (CA INDEX NAME)

RN 116904-28-0 HCAPLUS

CN Piperazine, 1-methyl-4-[[4-[2-(3-nitrophenyl)ethenyl]-2-phenyl-5-pyrimidinyl]carbonyl]-, (E)- (9CI) (CA INDEX NAME)

- RN 116904-30-4 HCAPLUS
- CN Piperazine, 1-methyl-4-[[4-(3-nitrobenzoyl)-2-phenyl-5pyrimidinyl]carbonyl]- (9CI) (CA INDEX NAME)

- RN 116904-35-9 HCAPLUS
- CN Methanone, (4-methyl-1-piperazinyl)[4-[(4-nitrophenyl)methyl]-2-phenyl-5pyrimidinyl]- (CA INDEX NAME)

- RN 116904-53-1 HCAPLUS
- CN Methanone, [5-[(4-methyl-1-piperazinyl)methyl]-2-phenyl-4-pyrimidinyl](3nitrophenyl)- (CA INDEX NAME)

- RN 116904-57-5 HCAPLUS
- CN Methanone, [4-methyl-6-[(3-nitrophenyl)amino]-2-phenyl-5-pyrimidinyl](4-methyl-1-piperazinyl)- (CA INDEX NAME)

- RN 116904-65-5 HCAPLUS
- CN Pyrimidine, 5-[(4-methyl-1-piperazinyl)methyl]-4-[(4-nitrophenyl)methyl]-2phenyl- (CA INDEX NAME)

- RN 116904-66-6 HCAPLUS
- CN Pyrimidine, 5-[(4-methyl-1-piperazinyl)methyl]-4-[(3-nitrophenyl)methyl]-2phenyl- (CA INDEX NAME)

- RN 116904-67-7 HCAPLUS
- CN Methanone, [4-[hydroxy(4-nitrophenyl)methyl]-2-phenyl-5-pyrimidinyl](4-methyl-1-piperazinyl)- (CA INDEX NAME)

RN 116904-68-8 HCAPLUS

CN Methanone, [4-[hydroxy(3-nitrophenyl)methyl]-2-phenyl-5-pyrimidinyl](4-methyl-1-piperazinyl)- (CA INDEX NAME)

RN 116904-69-9 HCAPLUS

CN 4-Pyrimidinemethanol, 5-[(4-methyl-1-piperazinyl)methyl]- $\alpha$ -(3-nitrophenyl)-2-phenyl- (CA INDEX NAME)

RN 116924-79-9 HCAPLUS

CN Piperazine, 1-methyl-4-[[4-[2-(4-nitrophenyl)ethenyl]-2-phenyl-5pyrimidinyl]carbonyl]-, (E)- (9CI) (CA INDEX NAME)

- RN 116924-80-2 HCAPLUS
- CN Methanone, [5-[(4-methyl-1-piperazinyl)methyl]-2-phenyl-4-pyrimidinyl](4-nitrophenyl)- (CA INDEX NAME)

- RN 159970-99-7 HCAPLUS
- CN Methanone, (4-methyl-1-piperazinyl)[4-[(3-nitrophenyl)methyl]-2-phenyl-5pyrimidinyl]-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

ΙT	116904-36-0P	116904-37-1P	116904-38-2P
	116904-39-3P	116904-40-6P	116904-41-7P
	116904-43-9P	116904-44-0P	116904-45-1P
	116904-47-3P	116904-48-4P	116904-51-99
	116904-52-0P	116904-54-2P	116904-55-3F
	116904-61-1P	116904-62-2P	116904-63-3F

116904-64-4P 159971-02-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of antianoxic cerebral protective agent [(pyrimidinyl)carbonyl]piperazine)

RN 116904-36-0 HCAPLUS

RN 116904-37-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(3-nitrobenzoyl)-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 116904-38-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[2-(3-nitrophenyl)ethenyl]-2-phenyl-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 116904-39-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[(4-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

RN 116904-40-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[2-(3-nitrophenyl)ethenyl]-2-phenyl-, (E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 116904-41-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[2-(4-nitrophenyl)ethenyl]-2-phenyl-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 116904-43-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(4-nitrophenyl)thio]-2-phenyl-(CA INDEX NAME)

RN 116904-44-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(2-nitrophenyl)thio]-2-phenyl-(CA INDEX NAME)

RN 116904-45-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-nitrobenzoyl)-2-phenyl- (CA INDEX NAME)

RN 116904-47-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[(3-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

RN 116904-48-4 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(3-nitrobenzoyl)-2-phenyl- (CA INDEX NAME)

RN 116904-51-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[2-(4-nitrophenyl)ethenyl]-2-phenyl-, (E)-(9CI) (CA INDEX NAME)

RN 116904-52-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-nitrobenzoy1)-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 116904-54-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(4-nitrophenyl)thio]-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 116904-55-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(2-nitrophenyl)thio]-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 116904-61-1 HCAPLUS

CN 5-Pyrimidinemethanol, 4-[(4-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

116904-62-2 HCAPLUS RN

CN 5-Pyrimidinemethanol, 4-[(3-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

116904-63-3 HCAPLUS RN

CN Pyrimidine, 5-(bromomethyl)-4-[(4-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

RN 116904-64-4 HCAPLUS

CN Pyrimidine, 5-(bromomethyl)-4-[(3-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

159971-02-5 HCAPLUS RN

CN 5-Pyrimidinecarboxylic acid, 4-[(3-nitrophenyl)methyl]-2-phenyl-, ethyl ester (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L52 ANSWER 31 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1992:214528 HCAPLUS Full-text

2

DOCUMENT NUMBER:

116:214528 ORIGINAL REFERENCE NO.: 116:36361a,36364a

TITLE:

Preparation of [(pyrimidinyloxy)phenyl]methoxypropenoates and related compounds as agrochemical fungicides

INVENTOR(S): Clough, John Martin; Godfrey, Christopher Richard Ayles; Streeting, Ian Thomas; Cheetham, Rex; De

Fraine, Paul John; Bartholomew, David; Eshelby, James

John
PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK

SOURCE: Eur. Pat. Appl., 57 pp. CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

		DATE	APPLICATION NO.	DATE
			EP 1991-306512	19910717 <
EP 468695	B1	19960911		
R: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IT, LI, LU, NL,	SE
ZA 9105512	A			
IL 98830	A	19960131	IL 1991-98830	19910715 <
		19920130	AU 1991-80437	19910716 <
AU 632425	B2	19921224		
AT 142626	T	19960915	AT 1991-306512	19910717 <
CA 2047510	A1	19920128	CA 1991-2047510	19910722 <
HU 58299	A2	19920228	HU 1991-2441	19910722 <
HU 212117	В	19960228		
CN 1060289	A	19920415	CN 1991-105782	19910724 <
CN 1036519	C	19971126		
BR 9103225	A	19920526	BR 1991-3225	19910726 <
KR 200936	B1	19990615	KR 1991-12964	19910727 <
JP 05163249	A	19930629	JP 1991-212941	19910729 <
JP 3041315	B2	20000515		
US 20030060626	A1	20030327	US 2002-87984	20020305 <
US 6613773	B2	20030902		
US 20040092746	A1	20040513	US 2003-608698	20030627 <
US 6777412	B2	20040817		
PRIORITY APPLN. INFO.:			GB 1990-16583	A 19900727 <
			GB 1990-20748	A 19900924 <
			GB 1991-15480	19910717 <
				B1 19910726 <
			US 1993-146822	B1 19931101 <
				B1 19950607 <
			US 2002-87984	A3 20020305 <

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 116:214528

ED Entered STN: 31 May 1992

GI

AB Title compds. [I, any 2 of K, L, M = N, the other = CB; T = O, S; Z = (substituted) aryl, heterocycly! x Z = O, S, SO, SOZ, COS, CSZ, NR4N-CR1, N(CHO), NR4, CO, CRIR2, CO2, OCHRICHR2, CR1:NO, COCO, CONR4, N:N, SCO, etc.; A,B,E = H, OH, halo, (halo)alkyl, (halo)alkoxy, alkylcarbonyl, alkoxycarbonyl, PhO, NO2, cyano; R1,R2 = H, alkyl, Ph; R4 = H, alkyl, COR1, were prepared Thus, formanilide was stirred 2 h with NaH in DMF; the mixture was cooled to 0° and Me

E-2-[2-(6-methanesulfonylpyrimidin-4-yloxy)phenyl]-3-methoxypropenoate in DMF was added. The mixture was stirred 16 h to give 20% title compound II. II as a 0.05% spray gave complete control of Puccinia recordita, Erysiphe graminis hurdei, Venturia inaequalis, Plasmopara viticola, etc.

IC ICM C07D239-46

ICS C07D239-52; A01N043-54; C07D239-56; C07D403-04; C07D403-12

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

Section cross-	reference(s): 5	)		
141189-77-7P	141189-78-8P	141189-79-9P	141189-80-2P	141189-81-3P
141189-82-4P	141189-83-5P	141189-84-6P	141189-85-7P	141189-86-8P
141189-87-9P	141189-88-0P	141189-89-1P	141189-90-4P	141189-91-5P
141189-92-6P	141189-93-7P	141189-94-8P	141189-95-9P	141189-96-0P
141189-97-1P	141189-98-2P	141189-99-3P	141190-00-3P	141190-01-4P
141190-02-5P	141190-03-6P	141190-04-7P	141190-05-8P	141190-06-9P
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141190-22-9P	141190-23-0P	141190-24-1P	141190-25-2P	141190-26-3P
141190-27-4P	141190-28-5P	141190-29-6P	141190-30-9P	141190-31-0P
141190-32-1P	141190-33-2P	141190-34-3P	141190-35-4P	141190-36-5P
141190-37-6P	141190-38-7P	141190-39-8P	141190-40-1P	141190-41-2P
141190-42-3P	141190-43-4P	141190-44-5P	141190-45-6P	141190-46-7P
141190-47-8P	141190-48-9P	141190-49-0P	141190-50-3P	
141190-51-4P	141190-52-5P	141190-53-6P	141190-54-7P	141190-55-8P
141206-50-0P				

RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)

IT 141190-49-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fundicide)

RN 141190-49-0 HCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[(2-phenyl-4-pyrimidinyl)oxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L52 ANSWER 32 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1991:228864 HCAPLUS Full-text

DOCUMENT NUMBER: 114:228864

ORIGINAL REFERENCE NO.: 114:38605a,38608a

Synthesis and biological activity of some TITLE:

4-substituted pyrimidines and fused pyrimidines El-Bahaie, S.; El-Deeb, A.; Assv. M. C. AUTHOR(S):

CORPORATE SOURCE: Fac. Sci., Zagazig Univ., Zagazig, Egypt

Pharmazie (1991), 46(1), 26-8 SOURCE:

CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S):

CASREACT 114:228864

ED Entered STN: 15 Jun 1991

GI

Reaction of acetylpyrimidine I (R = SH) with acrylonitrile and Cl gave I [R = SCH2CH2CN (II), Cl (III)] resp. II reacted with N2H4 and KMnO4 in presence of H2SO4 to give pyrazolopyrimidine IV and thienopyrimidine V resp. Reaction of III with aromatic amines, PhNHNH2, urea and NaN3 gave I (R = NHR1, NHNHPh, R1 = substituted Ph), pyrimidopyrimidine VI, and tetrazolopyrimidine VII resp. Other reactions of III are also reported. Most of the prepared compds. were tested for antibacterial activity and most were active.

133761-04-3P

- 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
- Section cross-reference(s): 10
- 117831-37-5P 117831-38-6P 133761-03-2P 133761-05-4P 133761-06-5P 133761-08-7P

133761-20-3P 133782-27-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL

(Biological study); PREP (Preparation)

(preparation and antibacterial activity of) 133761-08-7P

133761-04-3P 133761-06-5P

133761-20-3P 133782-27-1P

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and antibacterial activity of)

RN 133761-04-3 HCAPLUS

CN Ethanone, 1-[4-methv1-2-phenv1-6-(phenvlamino)-5-pyrimidinv1]- (CA INDEX NAME)

- 133761-06-5 HCAPLUS RN
- Ethanone, 1-(4-ethoxy-6-methyl-2-phenyl-5-pyrimidinyl)- (CA INDEX NAME)

- 133761-08-7 HCAPLUS RN
- Ethanone, 1-[4-(2,4-dinitrophenoxy)-6-methyl-2-phenyl-5-pyrimidinyl]- (CA CN INDEX NAME)

- RN 133761-20-3 HCAPLUS
- CN Ethanone, 1-[4-[(4-chlorophenyl)amino]-6-methyl-2-phenyl-5-pyrimidinyl]-(CA INDEX NAME)

RN 133782-27-1 HCAPLUS

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD

(8 CITINGS)

L52 ANSWER 33 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1991:101905 HCAPLUS Full-text

DOCUMENT NUMBER: 114:101905

ORIGINAL REFERENCE NO.: 114:17373a,17376a

TITLE: Synthesis of certain mercapto— and aminopyrimidine derivatives as potential antimicrobial agents AUTHOR(S): El-Kerdawy, M. M.; Eisa, H. M.; El-Emam, A. A.;

Massoud, M. A.; Nasr, M. N.

CORPORATE SOURCE: Fac. Pharm., Univ. Mansoura, Mansoura, Egypt

SOURCE: Archives of Pharmacal Research (1990),

13(2), 142-6

CODEN: APHRDQ; ISSN: 0253-6269

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 23 Mar 1991

GI

$$\begin{array}{c} \begin{array}{c} CO_2Et \\ \\ Ph \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ S \end{array} \\ \begin{array}{c} CO_2Et \\ \\ S \end{array} \\ \begin{array}{c} NH \\ \\ \\ \end{array} \\ \begin{array}{c} NH \\ \\$$

AB Reaction of Et 4-chloro-2-phenylpyrimidine-4-carboxylate (I) with 5-chloro-2-methylthiophenol or 3-aryl-4-phenyl-1,2,4-triazole-5-thiols yielded the corresponding thioethers II and III (R = 4-pyridyl, 2-thienyl). Careful alkaline hydrolysis of II yielded the corresponding carboxylic acid. Reaction of I with p-aminoacetophenone yielded compd.1V (RI = Me), which reacted with aromatic aldehydes to afford the α,β-unsatd. ketones IV (RI = CH:CHC6H4R2; R2 = 2-Cl, 4-Cl, 3-Br, 4-Br, 4-NO2) (V). Condensation of I with malonomitrile or phenylhydrazine yielded the corresponding 2-amino-3-cyanopyridines or the 2-

pyrazolines, resp. Seven representative compds. were tested for their in vitro antimicrobial activity against some pathogenic bacteria and fungi.

28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 10

132165-77-6P 132165-78-7P 132165-79-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal and funcicidal activities of)

132165-72-19

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal and fungicidal activity of)

132165-69-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and saponification of)

132165-70-99

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation, attempted cyclization, and bactericidal and fungicidal activity of)

132165-77-6P 132165-78-7P 132165-79-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal and fungicidal activities of) 132165-77-6 HCAPLUS RN

CN 5-Pyrimidinecarboxylic acid, 4-[[4-[3-(4-bromophenyl)-1-oxo-2-propen-1vl|phenvl|amino|-2-phenvl-, ethvl ester (CA INDEX NAME)

RN 132165-78-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[[4-[6-amino-4-(2-chlorophenyl)-5-cyano-2pyridinyl]phenyl]amino]-2-phenyl-, ethyl ester (CA INDEX NAME)

CN 5-Pyrimidinecarboxylic acid, 4-[[4-[6-amino-4-(4-chloropheny1)-5-cyano-2-pyridiny1]pheny1]amino]-2-pheny1-, ethyl ester (CA INDEX NAME)

- IT 132165-71-0P 132165-72-1P
  - RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
- (preparation and bactericidal and fungicidal activity of)
- RN 132165-71-0 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-phenyl-4-[[4-phenyl-5-(4-pyridinyl)-4H-1,2,4-triazol-3-yl]thio]-, ethyl ester (CA INDEX NAME)

- RN 132165-72-1 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-phenyl-4-[[4-phenyl-5-(2-thienyl)-4H-1,2,4-triazol-3-yl]thio]-, ethyl ester (CA INDEX NAME)

- TT 132165-69-63
  - RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and saponification of)
- RN 132165-69-6 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-[(5-chloro-2-methylphenyl)thio]-2-phenyl-, ethyl ester (CA INDEX NAME)

132165-70-99

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation, attempted cyclization, and bactericidal and fungicidal activity of)

RN 132165-70-9 HCAPLUS

CN 5-Pvrimidinecarboxvlic acid, 4-[(5-chloro-2-methylphenyl)thio]-2-phenyl-(CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L52 ANSWER 34 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1988:570451 HCAPLUS Full-text DOCUMENT NUMBER: 109:170451

ORIGINAL REFERENCE NO.: 109:28279a,28282a

TITLE: Preparation of pyrimidine derivatives as drugs for treating disease and disorders of cerebral blood

INVENTOR(S):

Takatani, Takao; Takasugi, Hisashi; Kuno, Atsushi; Sugivama, Yoshie; Sakai, Hirovoshi; Okubo, Mitsuru

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkvo Koho, 31 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 63107966 19880512 JP 1987-124326 19870520 <--PRIORITY APPLN. INFO.: JP 1986-117800 A1 19860522 <--

OTHER SOURCE(S): CASREACT 109:170451; MARPAT 109:170451

ED Entered STN: 12 Nov 1988



AB The title compds. [I; Ar = (nitro or habalkyl)aryl, fused benzene-heterocyclyl containing N or 0; X = bond, lower hydroxyalkylene, lower alkenylene, NH, S, CO; R1 = (esterified) COZH, lower hydroxyalkyl, lower haloalkyl, (N-substituted) CONH2 or lower aminoalkyl; R2 = H, lower alkyl; optionally R1R2 completing (substituted) N-containing heterocycle; R3 = aryl], were prepared as drugs e.g. for treating apoplexy. A mixture of 6-bromomethyl-4-(3-nitrophenyl)2-phenyl-5-pyrimidinecarboxylic acid Me ester and Me2NCH2CHNH2 in iso-PrOH was stirred at 70° for 1 h to give 6-[2-(dimethylamino)ethyl]4-(3-nitrophenyl)-5-oxo-2-phenyl-6,7-dihydropyrrol(3,4-dlpyrmidine. The latter at 10 mg/kg i.p. extended the survival time of mice from 28.2 ± 1.1 s (control) to 33.6 ± 2.9 s when the mice were exposed to 100% N atmospheric

IC ICM C07D239-28 ICS A61K031-505; C07D239-32; C07D239-42; C07D403-06; C07D413-04;

CO7D487-04
CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

IT 116904-45-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(acid chloride formation and amidation of, with methylpiperazine)

RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, with methylpiperazine)

IT 103311-82-6

ΤТ

RL: RCT (Reactant); RACT (Reactant or reagent)

(brominatio	on of)			
103294-21-92	116904-11-1P	116904-12-2P	116904-13-3P	
116904-14-4P	116904-15-5P	116904-16-6P	116904-17-7P	116904-18-8P
116904-19-9P	116904-20-2P	116904-21-3P	116904-22-4P	116904-23-5P
116904-24-6P	116904-25-79	116904-26-8P		
116904-27-99	116904-28-0P	116904-29-1P		
116904-30-4P	116904-31-5P	116904-32-6P		
116904-33-7P	116904-34-8P	116904-35-99		
116904-36-0P	116904-37-1P	116904-38-2P		
116904-39-3P	116904-40-6P	116904-41-7P		
116904-42-8P	116904-43-9P	116904-44-0P		
116904-45-1P	116904-46-2P	116904-47-3P		
116904-48-4P	116904-49-5P	116904-50-8P	116904-51-9P	
116904-52-0P	116904-53-1P	116904-54-2P	***************************************	
116904-55-3P	116904-56-4P	116904-57-5P		
116904-58-6P	116904-59-7P	116904-60-0P	116904-61-1P	
116904-62-2P	116904-63-3P	116904-64-49		
116904-65-5P	116904-66-69	116904-67-79		
116904-68-8P	116904-69-99	116904-78-09		
116924-79-92	116924-80-2P	117699-25-9P		
	***************************************			

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as drug for treating apoplexy)

TT 62088-12-4P 70076-42-5P 116904-71-3P 116904-73-5P 116904-75-7P 116904-76-8P 116904-77-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, in preparation of drug for treating apoplexy)

116904-45-1

RL: RCT (Reactant); RACT (Reactant or reagent) (acid chloride formation and amidation of, with methylpiperazine)

RN 116904-45-1 HCAPLUS

5-Pyrimidinecarboxylic acid, 4-(4-nitrobenzoyl)-2-phenyl- (CA INDEX NAME) CN

$$\bigcup_{0 \ge N} \bigcup_{H \ge 2} \bigcup_{n=1}^{N} \bigcup_{n=1}^{N} \bigcap_{n=1}^{n} \bigcap_{n=1}^$$

116904-47-3 ΙT

RL: RCT (Reactant); RACT (Reactant or reagent)

(amidation of, with methylpiperazine)

RN 116904-47-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[(3-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

ΙT 103311-82-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(bromination of) RN 103311-82-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-ethyl-6-(3-nitrophenyl)-2-phenyl-, methyl ester (CA INDEX NAME)

 IT	103294-21-9F 116904-27-9F 116904-31-5F 116904-36-0F 116904-39-3F 116904-42-8F 116904-45-1P 116904-51-9F 116904-57-5F 116904-63-3F 116904-63-3F	116904-25-7P 116904-28-0P 116904-34-8P 116904-37-1P 116904-40-6P 116904-47-3P 116904-57-0P 116904-57-0P 116904-61-1P 116904-61-1P 116904-61-4P	116904-26-8P 116904-30-4P 116904-35-9P 116904-35-9P 116904-41-7P 116904-44-0P 116904-45-3-1P 116904-65-4P 116904-66-4P 116904-65-5P
	110304-00-05	110904-07-72	119304-09-95

# 116904-69-9P 116904-78-0P 116924-79-9P

116924-80-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as drug for treating apoplexy)

RN 103294-21-9 HCAPLUS
CN Methanone, [4-methyl-6-(3-nitrophenyl)-2-phenyl-5-pyrimidinyl][4-methyl-1-piperazinyl]- (CA INDEX NAME)

RN 116904-25-7 HCAPLUS

CN Piperazine, 1-methyl-4-[[4-(4-nitrobenzoy1)-2-phenyl-5pyrimidinyl]carbonyl]- (9CI) (CA INDEX NAME)

RN 116904-26-8 HCAPLUS

CN Methanone, [4-methyl-6-[(4-nitrophenyl)thio]-2-phenyl-5-pyrimidinyl](4-methyl-1-piperazinyl)- (CA INDEX NAME)

RN 116904-27-9 HCAPLUS

CN Methanone, [4-methyl-6-[(2-nitrophenyl)thio]-2-phenyl-5-pyrimidinyl](4-methyl-1-piperazinyl)- (CA INDEX NAME)

RN 116904-28-0 HCAPLUS

CN Piperazine, 1-methyl-4-[[4-[2-(3-nitrophenyl)ethenyl]-2-phenyl-5pyrimidinyl]carbonyl]-, (E)- (9CI) (CA INDEX NAME)

- RN 116904-30-4 HCAPLUS
- CN Piperazine, 1-methyl-4-[[4-(3-nitrobenzoyl)-2-phenyl-5pyrimidinyl]carbonyl]- (9CI) (CA INDEX NAME)

- RN 116904-31-5 HCAPLUS
- CN 5-Pyrimidinecarboxamide, N-[2-(dimethylamino)ethyl]-4-(4-nitrobenzoyl)-2-phenyl- (CA INDEX NAME)

$$\begin{array}{c} \text{O2N} & \\ \text{Me}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{NH}-\text{CH}_2\\ \end{array}$$

RN 116904-34-8 HCAPLUS

CN Methanone, (4-methyl-1-piperazinyl) [4-[(3-nitrophenyl)methyl]-2-phenyl-5pyrimidinyl]-, hydrochloride (1:?) (CA INDEX NAME)

●x HCl

- RN 116904-35-9 HCAPLUS
- CN Methanone, (4-methyl-1-piperazinyl)[4-[(4-nitrophenyl)methyl]-2-phenyl-5pyrimidinyl]- (CA INDEX NAME)

- RN 116904-36-0 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-[(4-nitrophenyl)methyl]-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 116904-37-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(3-nitrobenzoyl)-2-phenyl-, ethyl ester (CA INDEX NAME)

RN 116904-38-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[2-(3-nitrophenyl)ethenyl]-2-phenyl-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 116904-39-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[(4-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

RN 116904-40-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[2-(3-nitrophenyl)ethenyl]-2-phenyl-, (E)-(9CI) (CA INDEX NAME)

RN 116904-41-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[2-(4-nitrophenyl)ethenyl]-2-phenyl-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

- RN 116904-42-8 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(3-nitrophenyl)amino]-2-phenyl-(CA INDEX NAME)

- RN 116904-43-9 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(4-nitrophenyl)thio]-2-phenyl-(CA INDEX NAME)

- RN 116904-44-0 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(2-nitrophenyl)thio]-2-phenyl-(CA INDEX NAME)

RN 116904-45-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-nitrobenzoyl)-2-phenyl- (CA INDEX NAME)

RN 116904-47-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-[(3-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

- RN 116904-48-4 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(3-nitrobenzoy1)-2-phenyl- (CA INDEX NAME)

- RN 116904-51-9 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-[2-(4-nitrophenyl)ethenyl]-2-phenyl-, (E)-(9CI) (CA INDEX NAME)

- RN 116904-52-0 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(4-nitrobenzoy1)-2-phenyl-, ethyl ester (CA INDEX NAME)

- RN 116904-53-1 HCAPLUS
- CN Methanone, [5-[(4-methyl-1-piperazinyl)methyl]-2-phenyl-4-pyrimidinyl](3nitrophenyl)- (CA INDEX NAME)

- RN 116904-54-2 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(4-nitrophenyl)thio]-2-phenyl-, ethyl ester (CA INDEX NAME)

- RN 116904-55-3 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(2-nitrophenyl)thio]-2-phenyl-, ethyl ester (CA INDEX NAME)

- RN 116904-56-4 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-methyl-6-[(3-nitrophenyl)amino]-2-phenyl-, ethyl ester (CA INDEX NAME)

- RN 116904-57-5 HCAPLUS
- CN Methanone, [4-methyl-6-[(3-nitrophenyl)amino]-2-phenyl-5-pyrimidinyl](4-methyl-1-piperazinyl)- (CA INDEX NAME)

- RN 116904-61-1 HCAPLUS
- CN 5-Pyrimidinemethanol, 4-[(4-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

- RN 116904-62-2 HCAPLUS
- CN 5-Pyrimidinemethanol, 4-[(3-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

- RN 116904-63-3 HCAPLUS
- CN Pyrimidine, 5-(bromomethy1)-4-[(4-nitropheny1)methy1]-2-pheny1- (CA INDEX NAME)

RN 116904-64-4 HCAPLUS

CN Pyrimidine, 5-(bromomethyl)-4-[(3-nitrophenyl)methyl]-2-phenyl- (CA INDEX NAME)

RN 116904-65-5 HCAPLUS

CN Pyrimidine, 5-[(4-methyl-1-piperazinyl)methyl]-4-[(4-nitrophenyl)methyl]-2phenyl- (CA INDEX NAME)

RN 116904-66-6 HCAPLUS

CN Pyrimidine, 5-[(4-methyl-1-piperazinyl)methyl]-4-[(3-nitrophenyl)methyl]-2phenyl- (CA INDEX NAME)

RN 116904-67-7 HCAPLUS

CN Methanone, [4-[hydroxy(4-nitrophenyl)methyl]-2-phenyl-5-pyrimidinyl](4-methyl-1-piperazinyl)- (CA INDEX NAME)

- RN 116904-68-8 HCAPLUS
- CN Methanone, [4-[hydroxy(3-nitrophenyl)methyl]-2-phenyl-5-pyrimidinyl](4-methyl-1-piperazinyl)- (CA INDEX NAME)

- RN 116904-69-9 HCAPLUS
- CN 4-Pyrimidinemethanol, 5-[(4-methyl-1-piperazinyl)methyl]- $\alpha$ -(3-nitrophenyl)-2-phenyl- (CA INDEX NAME)

- RN 116904-78-0 HCAPLUS
- CN Methanone, (4-methyl-1-piperazinyl) [4-[(3-nitrophenyl)methyl]-2-phenyl-5pyrimidinyl]- (CA INDEX NAME)

RN 116924-79-9 HCAPLUS

Piperazine, 1-methyl-4-[[4-[2-(4-nitrophenyl)ethenyl]-2-phenyl-5pyrimidinyl]carbonyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

116924-80-2 HCAPLUS

Methanone, [5-[(4-methyl-1-piperazinyl)methyl]-2-phenyl-4-pyrimidinyl](4-CN nitrophenyl) - (CA INDEX NAME)

ΤТ 116904-73-5P 116904-77-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, in preparation of drug for treating apoplexy)

RN 116904-73-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(1-bromoethyl)-6-(3-nitrophenyl)-2-phenyl-, methyl ester (CA INDEX NAME)

RN 116904-77-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-methyl-2-phenyl-6-[3-(trifluoromethyl)phenyl]-, methyl ester (CA INDEX NAME)

L52 ANSWER 35 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1988:21928 HCAPLUS Full-text

DOCUMENT NUMBER: 108:21928

ORIGINAL REFERENCE NO.: 108:3727a,3730a TITLE: Preparation of

TITE:

azolylaryl(piperazinylphenoxy)dioxolanes as medical fungicides

INVENTOR(S): Kampe, Klaus Dieter; Raether, Wolfgang; Dittmar,

Walter; Haenel, Heinz
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.

PATENT ASSIGNEE(S): Hoechst A.-G., Fed. SOURCE: Ger. Offen., 49 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PAT	TENT N	Ο.			KINE	)	DATE		API	PLICAT	ION	NO.		DATE	
	DE	36095	98			A1		1987	1001	DE	1986-	3609	598		19860321	<
	EP	23796	2			A2		1987	0923	EP	1987-	1035	88		19870312	<
	EP	23796	2			A3		1989	0322							
		R:	ΑT,	BE,	CH,	DE,	ES,	FR,	GB,	GR, I	r, LI,	LU,	NL,	SE		
	FI	87012	06			A		1987	0922	FI	1987-	1206			19870319	<
	ZA	87020	21			A		1987	1028	ZA	1987-	2021			19870319	<
	HU	48236				A2		1989	0529	HU	1987-	1220			19870319	<
	US	48596	70			A		1989	0822	US	1987-	2819	3		19870319	<
	DK	87014	40			A		1987	0922	DK	1987-	1440			19870320	<
	NO	87011	65			A		1987	0922	NO	1987-	1165			19870320	<
	AU	87704	22			A		1987	0924	AU	1987-	7042	2		19870320	<
	AU	59069	2			B2		1989	1109							
	JP	62230	781			A		1987	1009	JP	1987-	6442	7		19870320	<
	IL	81950				A		1991	0630	IL	1987-	8195	0		19870320	<
	CA	12942	80			С		1992	0114	CA	1987-	5326	55		19870320	<
RIO	RITY	APPL	N. :	INFO.	:					DE	1986-	3609	598	A	19860321	<
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 108:21928

ED Entered STN: 23 Jan 1988

G:

AR The title compds. [I; R1 = C1-3 alkyl, F, C1; R2 = naphthyl, thienyl, halothienyl, (substituted) Ph; Y = (substituted) phenylpyrimidinyl, phenylpyridyl, quinolyl, isoquinolyl; A = CH, N; n = 0-2] were prepared as medicinal funcicides. cis-2-S(R)-(2,4-Dichlorophenyl)-2-(1,2,4-triazollylmethyl)-4-R(S)methanesulfonyloxymethyl-1,3-dioxolane in DMF was added to a mixture of 4-[[4-(4-hydroxyphenyl)-1-piperazinyl]methyl]-6-methoxy-2phenylpyrimidine and NaH in DMF and the mixture was refluxed 4 h to give 66.6% I (R1 = H, R2 = 2,4-Cl2C6H3, R3 = 6-methoxy-2-phenyl-4-pyrimidinyl, A = N). I were up to 60% more effective than terconazole against Trichophyton mentagrophytes.

TC: ICM C07D405-14

75050-39-4P

ICS C07D239-26; C07D239-28; C07D239-30; C07D239-34; C07D239-36; C07D213-04; C07D215-02; C07D217-02; A01N043-50; A01N043-54; A01N043-653

C07D233-60

ICI C07D249-08, C07D213-36, C07D213-62, C07D215-12, C07D239-26, C07D239-28,

C07D239-34

TТ

CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

111921-72-3 35252-98-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(amination of, by hydroxyphenylpiperazine derivative) 111921-22-3P 111921-23-4P 111921-24-5P ΤТ 111921-21-2P 111921-25-6P 111921-26-7P 111921-27-8P

111921-28-9P 111921-29-0P 111921-30-3P 111921-31-4P 111921-32-5P 111921-33-6P 111921-34-7P 111921-35-8P 111921-36-9P 111921-37-0P 111921-38-1P 111921-39-2P 111921-40-5P 111921-41-6P 111921-42-7P 111921-43-8P 111921-44-9P 111921-45-0P 111921-46-1P 111921-48-3P 111921-47-2P 111921-49-4P 111921-50-7P 111921-51-8P 111921-52-9P 111921-53-0P 111921-54-1P 111921-55-2P 111921-56-3P 111921-57-4P 111921-58-5P 111921-59-6P 111921-60-9P 111933-28-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as intermediate for medicinal funcicide)

111920-67-39

75050-34-9P 75050-35-0P 75050-36-1P 75050-37-2P 75050-38-3P 111920-68-4P

111920-69-5P	111920-70-8P	111920-71-9P	111920-72-0P	
111920-73-1P	111920-74-2P	111920-75-3P	111920-76-4P	
111920-77-5P	111920-78-6P	111920-79-7P	111920-80-0P	111920-82-2P
111920-83-3P	111920-84-4P	111920-85-5P	111920-86-6P	111920-87-7P
111920-88-8P	111920-89-9P	111920-90-2P	111920-91-3P	
111920-92-4P	111920-93-5P	111920-94-6P	111920-95-7P	
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111921-01-8P	111921-02-9P	111921-03-0P	111921-04-1P	111921-05-2P
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#### 10/595.734

111943-47-6P	111943-48-7P	111943-49-8P	111943-50-1P
111943-51-2P	111943-52-3P	111943-53-4P	111943-53-4P
111973-80-9P			

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as medicinal fungicide)

IT 111921-72-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(amination of, by hydroxyphenylpiperazine derivative)

RN 111921-72-3 HCAPLUS

CN Pyrimidine, 4-(chloromethyl)-6-methoxy-2-phenyl- (CA INDEX NAME)

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for medicinal fungicide)

RN 111921-21-2 HCAPLUS

CN Phenol, 4-[4-[(6-methoxy-2-phenyl-4-pyrimidinyl)methyl]-1-piperazinyl]-(CA INDEX NAME)

- RN 111921-25-6 HCAPLUS

RN 111921-26-7 HCAPLUS

CN Phenol, 4-[4-[(6-methoxy-2-phenyl-4-pyrimidinyl)methyl]-1-piperazinyl]-2,6dimethyl- (CA INDEX NAME)

RN 111921-44-9 HCAPLUS

CN Phenol, 4-[4-[4-(4-methoxyphenoxy)-2-phenyl-6-propyl-5pyrimidinyl]methyl]-1-piperazinyl]- (CA INDEX NAME)

CN Phenol, 4-[4-[4-[4-methyl-6-(1-methylethoxy)-2-pyrimidinyl]phenyl]methyl]-1-piperazinyl]- (CA INDEX NAME)

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as medicinal fungicide)

- RN 111920-67-3 HCAPLUS
- CN Pyrimidine, 4-[[4-[4-][(2R, 4S)-2-(2, 4-dichlorophenyl)-2-(1H-1, 2, 4-triazol-1-ylmethyl)-1, 3-dioxolan-4-ylmethoxy]phenyl-1-piperazinyl]methyl]-6-methoxy-2-phenyl-, rel- (CA INDEX NAME)

Relative stereochemistry.

- RN 111920-68-4 HCAPLUS
- CN Pyrimidine, 4-butoxy-6-[[4-[4-[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy]phenyl]-1-piperazinyl]methyl]-2-phenyl-, cis-(9CI) (CA INDEX NAME)

RN 111920-69-5 HCAPLUS

CN Pyrimidine, 4-butoxy-6-[[4-[4-[12-(2,4-dichloropheny1)-2-(1H-1,2,4-triazoll-ylmethyl)-1,3-dioxolan-4-yl]methoxy[phenyl]-1-piperazinyl]methyl]-2phenyl-, cis- (9C1) (CA INDEX NAME)

Relative stereochemistry.

RN 111920-75-3 HCAPLUS

CN Pyrimidine, 4-[[4-[4-[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]-3,-dimethylphenyl]-1-piperazinyl]methyl]-6-methoxy-2-phenyl-, cis- (90I) (CA INDEX NAME)

Relative stereochemistry.

RN 111920-90-2 HCAPLUS

CN Pyrimidine, 5-[4-[4-[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]-3,5-dimethylphenyl]-1-piperazinyl]methyl]-4-methoxy-2-phenyl-6-propyl-, cis- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

- RN 111920-95-7 HCAPLUS
- CN Pyrimidine, 2-[4-[4-[4-[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-yllmethoxylphenyl]-1-piperazinyl]methyl]phenyl]-4-methyl-6-(1-methylethoxyl-, cis-(9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 111943-51-2 HCAPLUS

CN Pyrimidine, 5-[[4-[4-[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperainyl]methyl]-4-(4-methoxyphenoxy)-2-phenyl-6-propyl-, cis- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L52 ANSWER 36 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1985:162193 HCAPLUS Full-text

DOCUMENT NUMBER: 102:162193 ORIGINAL REFERENCE NO.: 102:25429a,25432a

TITLE: Phenylpyrimidines as antidotes for protecting

cultivated plants against phytotoxic damage caused by herbicides

Burdeska, Kurt; Kabas, Guglielmo; Brunner, Hans Georg;

INVENTOR(S): Foery, Werner

PATENT ASSIGNEE(S): Ciba-Geigy Corp. , USA SOURCE:

U.S., 29 pp. Cont.-in-part of U.S. Ser. No. 331,853,

abandoned. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 3 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4493726	A	19850115	US 1983-486651	19830420 <
ZA 8108852	A	19821229	ZA 1981-8852	19811222 <
US 4674229	A	19870623	US 1984-667705	19841102 <
PRIORITY APPLN. INFO.:			CH 1980-9522	A 19801223 <
			CH 1981-2363	A 19810408 <
			US 1981-331853	A2 19811217 <
			US 1983-486651	A3 19830420 <

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT ED Entered STN: 18 May 1985

GI

$$\underset{R_{\vec{\Pi}}}{\underbrace{\hspace{1.5cm}}}\underset{\mathbb{R}^3}{\underbrace{\hspace{1.5cm}}}_{\mathbb{R}^2}$$

AB The phenylpyrimidines I (R = H, halo, CN, NO2, OH, C1-6 alkyl, alkoxy or alkylthio, etc.; R1 and R2 = halo, CN, OH, SH, C1-6 alkyl, etc.; R2 = H, halo, C1-6 alkyl, haloalkyl, or Ph; n = 1-5) are herbicide antidotes. The pertinent herbicides are butachlor [23184-66-9], alachlor [15972-60-8], acetochlor [34256-82-1], trifluralin [1582-09-8], and many others. Thus, in pot expts., 2-(p-chlorophenyl)-4,6-dichloropyrimidine [26870-72-4], applied together with pretilachlor [51218-49-6], at 0.25 kg/ha each, protected rice against the phytotoxicity of the latter.

IC ICM A01N057-10

ICS A01N043-48; C07D239-02

INCL 071087000

CC 5-3 (Agrochemical Bioregulators)

Section cross-reference(s): 28 IΤ 3740-90-7P 3740-91-8P 3740-92-9P 13514-79-9P 14727-23-2P 15726-40-6P 17077-89-3P 17077-93-9P 20655-14-5P 21139-61-7P 21139-63-9P 26863-48-9P 26863-54-7P 26870-72-4P 29509-92-0P 77232-14-5P 29954-25-4P 72520-17-3P 77232-19-0P 77232-18-99 77232-21-4P 77232-23-6P 77232-25-8P 79382-42-6P 79382-43-7P 79382-44-8P 79382-45-9P 79382-46-0P 79382-47-1P 79382-48-2P 79382-49-3P 79382-50-6P 79382-51-79 79382-77-7P 79382-68-6P 79382-78-89 79382-82-49 79396-00-2P 83216-81-3P 83216-82-4P 83216-83-5P 83216-84-6P 83216-85-7P 83216-86-8P 83216-88-0P 83216-89-1P 83216-90-4P 83216-91-5P 83216-92-6P 83216-93-7P 83216-94-8P 83216-95-9P 83216-96-0P 83216-97-1P 83216-98-2P 83216-99-3P 83217-00-9P 83217-01-0P 83217-02-1P 83217-04-3F 83217-05-4P 83217-06-5P 83217-07-6P 83217-08-7P 83217-09-8P 83217-10-1P 83217-11-2P 83217-12-3P 83217-13-4P 83217-14-5P 83217-15-6P 83217-16-7P 83217-17-8P 83217-19-0P 83217-20-3P 83217-21-4P 83217-18-9P

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95573-54-99
           95573-55-0P
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RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of as berbicide antidote)

	(preparati	ion or, as ne	rbicide antidot
Γ	72520-17-3P	77232-14-52	77232-18-9P
	77232-19-0P	77232-21-42	77232-23-6P
	79382-42-6P	79382-43-7P	79382-44-89
	79382-46-0P	79382-47-1P	79382-48-2P
	79382-49-39	79382-50-6P	79382-51-7P
	79382-78-8P	79382-82-49	83216-84-6P
	83216-85-7P	83216-86-8P	83216-87-9P
	83216-88-0P	83216-89-1P	83216-90-4P
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	83216-94-8P	83216-98-22	83216-99-3P
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	83217-03-2P	83217-04-3P	95573-54-9P
	95573-55-0P		

RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide antidote)

RN 72520-17-3 HCAPLUS

CN Pyrimidine, 4-methoxy-6-methyl-2-phenyl- (CA INDEX NAME)

- RN 77232-14-5 HCAPLUS
- CN Pyrimidine, 4,6-dimethoxy-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 77232-18-9 HCAPLUS
- CN Pyrimidine, 4,6-diethoxy-2-(4-methylphenyl)- (CA INDEX NAME)

RN 77232-19-0 HCAPLUS

CN Pyrimidine, 2-(4-methylphenyl)-4,6-dipropoxy- (CA INDEX NAME)

RN 77232-21-4 HCAPLUS

CN Pyrimidine, 4-chloro-2-(4-methylphenyl)-6-phenyl- (CA INDEX NAME)

RN 77232-23-6 HCAPLUS

CN Pyrimidine, 4-methoxy-2-(4-methylphenyl)-6-phenyl- (CA INDEX NAME)

RN 79382-42-6 HCAPLUS

CN Pyrimidine, 4,6-bis(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-43-7 HCAPLUS

CN Pyrimidine, 2-(4-methylphenyl)-4,6-diphenoxy- (CA INDEX NAME)

RN 79382-44-8 HCAPLUS

CN Pyrimidine, 4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-46-0 HCAPLUS

CN 4-Pyrimidinamine, 6-(2-methoxyethoxy)-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-47-1 HCAPLUS

CN 4-Pyrimidinamine, N,N-diethyl-6-(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-48-2 HCAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-49-3 HCAPLUS

CN 4-Pyrimidinamine, 6-chloro-N,N-diethyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-50-6 HCAPLUS

CN Pyrimidine, 4,6-bis(ethylthio)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-51-7 HCAPLUS

CN Pyrimidine, 4,6-dibutoxy-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-78-8 HCAPLUS

CN Pyrimidine, 4-methoxy-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-82-4 HCAPLUS

CN Pyrimidine, 4-methyl-2-(4-methylphenyl)-6-phenoxy- (CA INDEX NAME)

RN 83216-84-6 HCAPLUS

CN Pyrimidine, 4-chloro-6-methoxy-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-85-7 HCAPLUS

CN Pyrimidine, 4-chloro-6-methoxy-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-86-8 HCAPLUS

CN Pyrimidine, 4-chloro-6-(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-87-9 HCAPLUS

CN Pyrimidine, 4-chloro-2-(4-methylphenyl)-6-phenoxy- (CA INDEX NAME)

- RN 83216-88-0 HCAPLUS
- CN 4-Pyrimidinamine, 5-bromo-6-chloro-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83216-89-1 HCAPLUS
- CN Pyrimidine, 4-(2-methoxyethoxy)-6-methyl-2-phenyl- (CA INDEX NAME)

- RN 83216-90-4 HCAPLUS
- CN Pyrimidine, 4-[2-(2-methoxyethoxy)ethoxy]-6-methyl-2-phenyl- (CA INDEX NAME)

- RN 83216-91-5 HCAPLUS
- CN Pyrimidine, 4-(2-methoxyethoxy)-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83216-92-6 HCAPLUS
- CN 4-Pyrimidinamine, N,N,6-trimethyl-2-phenyl- (CA INDEX NAME)

RN 83216-93-7 HCAPLUS

CN 4-Pyrimidinamine, N,N,6-trimethy1-2-(4-methylpheny1)- (CA INDEX NAME)

RN 83216-94-8 HCAPLUS

CN 4-Pyrimidinamine, 5-bromo-N,N,6-trimethyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-98-2 HCAPLUS

CN Pyrimidine, 4,6-dimethoxy-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-99-3 HCAPLUS

CN Pyrimidine, 4,6-dimethoxy-2-(4-methylphenyl)-5-phenyl- (CA INDEX NAME)

- RN 83217-00-9 HCAPLUS
- CN Pyrimidine, 5-bromo-4,6-bis(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-01-0 HCAPLUS
- CN Pyrimidine, 4,6-bis(2-methoxyethoxy)-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-02-1 HCAPLUS
- CN Pyrimidine, 5-chloro-4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-03-2 HCAPLUS
- CN Pyrimidine, 5-bromo-4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-04-3 HCAPLUS
- CN 4-Pyrimidinamine, 5-bromo-6-(2-methoxyethoxy)-N-methyl-2-(4-methylphenyl)-(CA INDEX NAME)

RN 95573-54-9 HCAPLUS

CN Pyrimidine, 4-chloro-2-(4-methylphenyl)-6-(trifluoromethoxy)- (CA INDEX NAME)

RN 95573-55-0 HCAPLUS

CN 4(3H)-Pyrimidinone, 6-methoxy-2-(4-methylphenyl)- (CA INDEX NAME)

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD

(6 CITINGS)

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 37 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1986:47176 HCAPLUS Full-text

ACCESSION NUMBER: 1986:47176 HCAPL

ORIGINAL REFERENCE NO.: 104:7553a,7556a

TITLE: Use of phenylpyrimidines as plant growth regulators

INVENTOR(S): Seiler, Alfred; Mueller, Urs
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Ger. Dem. Rep.

SOURCE: Eur. Pat. Appl., 57 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT I	NO.			KIN	)	DATE			API	PLICATION	NO.		DATE	
						-							_		
EP	1369	76			A2		1985	0410		EP	1984-810	408		19840820	<
EP	1369	76			A3		1985	0515							
	R:	BE,	CH,	DE,	FR,	GB,	IT,	LI,	NL						

JP 60072808 A 19850424 JP 1984-175823 19840823 <--PRIORITY APPLN. INFO .: CH 1983-4614 A 19830823 <--OTHER SOURCE(S): MARPAT 104:47176

ED Entered STN: 23 Feb 1986

GI

$$R_{R}$$
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The phenylpyrimidines I (R = H, halo, NO2, CN, OH, alkyl, etc.; R1 and R2 = H, halo, alkyl, alkoxyalkyl, etc.; R3 = H, halo, alkyl, haloalkyl, or Ph) are plant growth regulators. Thus, 2-phenyl-4,6-dichloropyrimidine [3740-92-9] (500 mg/kg), applied as a seed dressing, increased the length and weight of wheat roots. The synthesis of I is given.

IC ICM A01N043-54

5-3 (Agrochemical Bioregulators) CC

Section cross-reference(s): 28

		s-reference(s)			
ΙT	3740-90-7P	3740-91-8P	3740-92-9P 13	3514-79-9P 1	4727-23-2P
	15726-40-6P	17077-89-3P	17077-93-9P	20655-14-5P	21139-61-7P
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97513-51-4P 97513-52-5P 97513-53-6P 97513-54-7P 97513-55-8P 97513-56-9P 97702-44-8P 97702-45-9P 97702-46-0P 97702-47-1P 97702-48-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) as plant-growth regulator)

	(preparati	on or, as prai	nt-growth regu
ΙT	72520-17-3P	77232-14-5P	77232-18-9P
	77232-19-09	77232-21-4P	77232-23-6P
	79382-42-6P	79382-43-7P	79382-44-8P
	79382-46-0P	79382-47-1P	79382-48-2P
	79382-49-32	79382-50-6P	79382-51-7P
	79382-78-8P	79382-82-4P	83216-84-6P
	83216-85-7P	83216-86-8P	83216-87-99
	83216-88-0P	83216-89-1P	83216-90-4P
	83216-91-5P	83216-92-6P	83216-93-7P
	83216-94-8P	83216-98-2P	83216-99-3P
	83217-00-99	83217-01-0P	83217-02-1P
	83217-03-2P	83217-04-3P	83217-71-4P
	97513-49-00		

RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as plant-growth regulator) 72520-17-3 HCAPLUS RN

CN Pyrimidine, 4-methoxy-6-methyl-2-phenyl- (CA INDEX NAME)

- 77232-14-5 HCAPLUS RN
- CN Pyrimidine, 4,6-dimethoxy-2-(4-methylphenyl)- (CA INDEX NAME)

- 77232-18-9 HCAPLUS
- CN Pyrimidine, 4,6-diethoxy-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 77232-19-0 HCAPLUS
- CN Pyrimidine, 2-(4-methylphenyl)-4,6-dipropoxy- (CA INDEX NAME)

$$\stackrel{n-\Pr{\circ}}{\overbrace{\hspace{1cm}}} \stackrel{N}{\underset{N}{\bigvee}} \stackrel{N}{\underset{N}{\bigvee}} Me$$

- RN 77232-21-4 HCAPLUS
- CN Pyrimidine, 4-chloro-2-(4-methylphenyl)-6-phenyl- (CA INDEX NAME)

- RN 77232-23-6 HCAPLUS
- CN Pyrimidine, 4-methoxy-2-(4-methylphenyl)-6-phenyl- (CA INDEX NAME)

$$\stackrel{\text{MeO}}{\longrightarrow} \stackrel{\text{N}}{\longrightarrow} \stackrel{\text{Me}}{\longrightarrow} \stackrel{\text{Me}}{\longrightarrow} \stackrel{\text{Me}}{\longrightarrow} \stackrel{\text{Me}}{\longrightarrow} \stackrel{\text{Me}}{\longrightarrow} \stackrel{\text{N}}{\longrightarrow} \stackrel{\text{Me}}{\longrightarrow} \stackrel{\text{N}}{\longrightarrow} \stackrel{\text{Me}}{\longrightarrow} \stackrel{\text{N}}{\longrightarrow} \stackrel{\text{N}}{\longrightarrow}$$

- RN 79382-42-6 HCAPLUS
- CN Pyrimidine, 4,6-bis(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 79382-43-7 HCAPLUS
- CN Pyrimidine, 2-(4-methylphenyl)-4,6-diphenoxy- (CA INDEX NAME)

RN 79382-44-8 HCAPLUS

CN Pyrimidine, 4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-46-0 HCAPLUS

CN 4-Pyrimidinamine, 6-(2-methoxyethoxy)-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-47-1 HCAPLUS

CN 4-Pyrimidinamine, N,N-diethyl-6-(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-48-2 HCAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-49-3 HCAPLUS

CN 4-Pyrimidinamine, 6-chloro-N, N-diethyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-50-6 HCAPLUS

CN Pyrimidine, 4,6-bis(ethylthio)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-51-7 HCAPLUS

CN Pyrimidine, 4,6-dibutoxy-2-(4-methylphenyl)- (CA INDEX NAME)

$$n-BuO$$
 $N$ 
 $N$ 
 $N$ 
 $Me$ 
 $Me$ 

RN 79382-78-8 HCAPLUS

CN Pyrimidine, 4-methoxy-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-82-4 HCAPLUS

CN Pyrimidine, 4-methyl-2-(4-methylphenyl)-6-phenoxy- (CA INDEX NAME)

$$\stackrel{\text{Me}}{\underbrace{\hspace{1cm}}} \stackrel{\text{N}}{\underbrace{\hspace{1cm}}} \stackrel{\text{Me}}{\underbrace{\hspace{1cm}}} \stackrel{\text{M$$

RN 83216-84-6 HCAPLUS

CN Pyrimidine, 4-chloro-6-methoxy-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83216-85-7 HCAPLUS
- CN Pyrimidine, 4-chloro-6-methoxy-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

$$\text{Me} \qquad \qquad \text{Me} \qquad \qquad \text{Me}$$

- RN 83216-86-8 HCAPLUS
- CN Pyrimidine, 4-chloro-6-(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83216-87-9 HCAPLUS
- CN Pyrimidine, 4-chloro-2-(4-methylphenyl)-6-phenoxy- (CA INDEX NAME)

- RN 83216-88-0 HCAPLUS
- CN 4-Pyrimidinamine, 5-bromo-6-chloro-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-89-1 HCAPLUS

CN Pyrimidine, 4-(2-methoxyethoxy)-6-methyl-2-phenyl- (CA INDEX NAME)

RN 83216-90-4 HCAPLUS

CN Pyrimidine, 4-[2-(2-methoxyethoxy)ethoxy]-6-methyl-2-phenyl- (CA INDEX NAME)

RN 83216-91-5 HCAPLUS

CN Pyrimidine, 4-(2-methoxyethoxy)-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-92-6 HCAPLUS

CN 4-Pyrimidinamine, N,N,6-trimethyl-2-phenyl- (CA INDEX NAME)

RN 83216-93-7 HCAPLUS

CN 4-Pyrimidinamine, N,N,6-trimethy1-2-(4-methylpheny1)- (CA INDEX NAME)

RN 83216-94-8 HCAPLUS

CN 4-Pyrimidinamine, 5-bromo-N,N,6-trimethyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-98-2 HCAPLUS

CN Pyrimidine, 4,6-dimethoxy-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-99-3 HCAPLUS

CN Pyrimidine, 4,6-dimethoxy-2-(4-methylphenyl)-5-phenyl- (CA INDEX NAME)

- RN 83217-00-9 HCAPLUS
- CN Pyrimidine, 5-bromo-4,6-bis(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-01-0 HCAPLUS
- CN Pyrimidine, 4,6-bis(2-methoxyethoxy)-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-02-1 HCAPLUS
- CN Pyrimidine, 5-chloro-4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-03-2 HCAPLUS
- CN Pyrimidine, 5-bromo-4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-04-3 HCAPLUS
- CN 4-Pyrimidinamine, 5-bromo-6-(2-methoxyethoxy)-N-methyl-2-(4-methylphenyl)-(CA INDEX NAME)

RN 83217-71-4 HCAPLUS

CN 4-Pyrimidinol, 6-chloro-2-(4-methylphenyl)-, 4-acetate (CA INDEX NAME)

RN 97513-49-0 HCAPLUS

CN 4-Pyrimidinesulfonic acid, 3,6-dihydro-2-(4-methylphenyl)-6-oxo-, methyl ester (CA INDEX NAME)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L52 ANSWER 38 OF 50 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1982:558036 HCAPLUS Full-text

DOCUMENT NUMBER: 97:158036

ORIGINAL REFERENCE NO.: 97:26277a,26280a TITLE: Use of phenylpyr.

TITLE: Use of phenylpyrimidines as protecting agents for crop plants against phytotoxic damage caused by herbicides INVENTOR(S): Burdeska, Kurt; Kabas, Guglielmo; Brunner, Hans Georg;

Foery, Werner

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz. SOURCE: Eur. Pat. Appl., 98 pp.

CODEN: EPXXDW
DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 55693	A1	19820707	EP 1981-810505	19811217 <
EP 55693	B1	19880120		

	R: AT,	BE,	CH,	DE,	FR,	GB,	IT,	NL					
IN	159209			A1		1987	0411		IN	1981-DE784		19811215	<
AT	32065			T		1988	0215		AΤ	1981-810505		19811217	<
CA	1220953			A1		1987	0428		CA	1981-392824		19811221	<
IL	64612			A		1988	0930		IL	1981-64612		19811221	<
DK	8105712			A		1982	0624		DK	1981-5712		19811222	<
DK	156687			В		1989	0925						
DK	156687			C		1990	0312						
ZA	8108852			A		1982	1229		za	1981-8852		19811222	<
DD	202798			A5		1983	1005		DD	1981-236096		19811222	<
HU	27801			A2		1983	1128		HU	1981-3912		19811222	<
HU	191339			В		1987	0227						
CS	243465			B2		1986	0612		CS	1981-9672		19811222	<
SU	1482505			A3		1989	0523		SU	1981-3369450		19811222	<
AU	8178840			A		1982	0701		ΑU	1981-78840		19811223	<
AU	558710			B2		1987	0205						
JP	57131702			A		1982	0814		JP	1981-208971		19811223	<
JP	62025641			В		1987	0604						
BR	8108383			A		1982	1013		BR	1981-8383		19811223	<
RO	83451			A1		1984	0221		RO	1981-106092		19811223	<
PL	130575			В1		1984	0831		PL	1981-234418		19811223	<
JP	61246102			A		1986	1101		JΡ	1986-68237		19860326	<
JP	02053402			В		1990	1116						
PRIORIT	APPLN.	INFO.	:						CH	1980-9522	A	19801223	<
										1981-2363	A		
									EΡ	1981-810505	A	19811217	<

OTHER SOURCE(S): MARPAT 97:158036

ED Entered STN: 12 May 1984

GI

- AB The phenylpyrimidines I (R = H, alkyl, halo, NO2, CF3, etc.; R1 = H, halo, SOMe, OWe, etc.; R2 = H, Me, Ph, NMe, OEt, etc.; R3 = H, halo, OEt, NIMe, SEt, etc.; n = 1-5) are herbicide antidotes. Thus, post-transplant application of 2-phenyl-4-chloropyrimidine [3740-92-9] (1 kg/ha) protected rice against the phytotoxic activity of pretilachlor [51218-49-6] (1 kg/ha) by 50%. The synthesis of I is given.
- IC C07D239-30; A01N025-32; C07D405-10
- CC 5-3 (Agrochemical Bioregulators)
- Section cross-reference(s): 28

	December Cross	o rererence (o)	. 20		
IT	1701-72-0P	3740-90-7P	3740-91-8P	3740-92-9P 13	514-79-9P
	14727-23-2P	15726-40-6P	17077-89-3P	17077-93-9P	20655-14-5P
	21139-61-7P	21139-63-9P	26863-48-9P	26863-54-7P	26870-72-4P
	29509-92-0P	29954-25-4P	72520-17-3P	77232-14-5P	
	77232-18-9P	77232-19-0P	77232-21-4P		
	77232-23-6P	77232-25-8P	79382-42-6P		
	79382-43-7P	79382-44-8P	79382-45-9P		
	79382-46-00	79382-67-10	79382-48-20		

79382-49-3P 79382-50-6P 79382-51-7P 79382-68-6P 79382-77-7P 79382-78-8P 79382-82-4P

#### 10/595.734

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79396-00-2P
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                        83063-01-8P
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            33216-84-6P
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83216-86-8P
            83216-87-9P
                         83216-88-0P
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            83216-93-7P
                         83216-94-8P
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            83216-96-0P
                         83216-97-1P
                                      83216-98-2P
83216-99-3P
             83217-00-9P
                         83217-01-0P
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            83217-06-5P
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                                      83217-33-8P
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                         83217-71-4P 83217-72-5P
83217-73-6P 83217-74-7P 83217-75-8P 83217-76-9P
```

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and herbicide-antidote activity of)

72520-17-3P	77232-14-5P	77232-18-99
77232-19-0P	77232-21-4P	77232-23-62
79382-42-6P	79382-43-7P	79382-44-82
79382-46-0P	79382-47-1P	79382-48-2P
79382-49-3P	79382-50-6P	79382-51-72
79382-78-8P	79382-82-4P	83216-84-6P
83216-85-7P	83216-86-89	83216-87-99
83216-88-0P	83216-92-6P	83216-93-78
83216-94-8P	83216-98-2P	83216-99-3P
83217-00-9P	83217-01-0P	83217-02-19
83217-03-2P	83217-04-3P	83217-33-8P
83217-71-4P		

RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and herbicide-antidote activity of)

RN 72520-17-3 HCAPLUS

Pyrimidine, 4-methoxy-6-methyl-2-phenyl- (CA INDEX NAME) CN

77232-14-5 HCAPLUS RN

CN Pyrimidine, 4,6-dimethoxy-2-(4-methylphenyl)- (CA INDEX NAME)

RN 77232-18-9 HCAPLUS

CN Pyrimidine, 4,6-diethoxy-2-(4-methylphenyl)- (CA INDEX NAME)

RN 77232-19-0 HCAPLUS

CN Pyrimidine, 2-(4-methylphenyl)-4,6-dipropoxy- (CA INDEX NAME)

$$^{\rm n-PrO} \overset{\rm N}{\longrightarrow} {\rm Me}$$

RN 77232-21-4 HCAPLUS

CN Pyrimidine, 4-chloro-2-(4-methylphenyl)-6-phenyl- (CA INDEX NAME)

$$\text{Cl} \underbrace{\qquad \qquad \qquad \qquad \qquad }_{\mathbb{P}h} \mathbb{N} \underbrace{\qquad \qquad \qquad }_{\mathbb{M} \oplus}$$

RN 77232-23-6 HCAPLUS

CN Pyrimidine, 4-methoxy-2-(4-methylphenyl)-6-phenyl- (CA INDEX NAME)

$$\stackrel{\text{MeO}}{\longrightarrow} \stackrel{N}{\underset{\text{Fh}}{\longrightarrow}} \stackrel{\text{Me}}{\longrightarrow} \stackrel{\text{Me}}{$$

RN 79382-42-6 HCAPLUS

CN Pyrimidine, 4,6-bis(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-43-7 HCAPLUS

CN Pyrimidine, 2-(4-methylphenyl)-4,6-diphenoxy- (CA INDEX NAME)

RN 79382-44-8 HCAPLUS

CN Pyrimidine, 4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-46-0 HCAPLUS

CN 4-Pyrimidinamine, 6-(2-methoxyethoxy)-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-47-1 HCAPLUS

CN 4-Pyrimidinamine, N,N-diethyl-6-(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 79382-48-2 HCAPLUS
- CN 4-Pyrimidinamine, 6-chloro-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 79382-49-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-chloro-N,N-diethyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 79382-50-6 HCAPLUS
- CN Pyrimidine, 4,6-bis(ethylthio)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 79382-51-7 HCAPLUS
- CN Pyrimidine, 4,6-dibutoxy-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 79382-78-8 HCAPLUS
- CN Pyrimidine, 4-methoxy-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-82-4 HCAPLUS

CN Pyrimidine, 4-methyl-2-(4-methylphenyl)-6-phenoxy- (CA INDEX NAME)

$$\stackrel{\text{Me}}{=} \stackrel{N}{\underset{N}{=}} \stackrel{\text{Me}}{=} \stackrel{$$

RN 83216-84-6 HCAPLUS

CN Pyrimidine, 4-chloro-6-methoxy-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-85-7 HCAPLUS

CN Pyrimidine, 4-chloro-6-methoxy-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-86-8 HCAPLUS

CN Pyrimidine, 4-chloro-6-(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83216-87-9 HCAPLUS
- CN Pyrimidine, 4-chloro-2-(4-methylphenyl)-6-phenoxy- (CA INDEX NAME)

- RN 83216-88-0 HCAPLUS
- CN 4-Pyrimidinamine, 5-bromo-6-chloro-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83216-92-6 HCAPLUS
- CN 4-Pyrimidinamine, N,N,6-trimethyl-2-phenyl- (CA INDEX NAME)

- RN 83216-93-7 HCAPLUS
- CN 4-Pyrimidinamine, N,N,6-trimethyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83216-94-8 HCAPLUS
- CN 4-Pyrimidinamine, 5-bromo-N,N,6-trimethyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-98-2 HCAPLUS

CN Pyrimidine, 4,6-dimethoxy-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-99-3 HCAPLUS

CN Pyrimidine, 4,6-dimethoxy-2-(4-methylphenyl)-5-phenyl- (CA INDEX NAME)

RN 83217-00-9 HCAPLUS

CN Pyrimidine, 5-bromo-4,6-bis(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83217-01-0 HCAPLUS

CN Pyrimidine, 4,6-bis(2-methoxyethoxy)-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-02-1 HCAPLUS
- CN Pyrimidine, 5-chloro-4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-03-2 HCAPLUS
- CN Pyrimidine, 5-bromo-4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

- RN 83217-04-3 HCAPLUS
- CN 4-Pyrimidinamine, 5-bromo-6-(2-methoxyethoxy)-N-methyl-2-(4-methylphenyl)(CA INDEX NAME)

- RN 83217-33-8 HCAPLUS

- RN 83217-71-4 HCAPLUS
- CN 4-Pyrimidinol, 6-chloro-2-(4-methylphenyl)-, 4-acetate (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

=> d iall abeq tech abex fraghitstr 39-44
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS, WPIX, BIOSIS' - CONTINUE? (Y)/N:y

L52 ANSWER 39 OF 50 WPIX COPYRIGHT 2009 THOMSON REUTERS on STN ACCESSION NUMBER: 2007-397098 [38] WPIX

C2007-143417 [38]

DOC. NO. CPI:

TITLE:

New pyrazole compounds are glycogen synthase kinase-3 activity inhibitors, useful for treating e.g. diabetes, Alzheimer's disease, schizophrenia, Huntington's disease, Parkinson's disease and amyotrophic lateral sclerosis

DERWENT CLASS: B03
INVENTOR: BEB

BEBBINGTON D; BINCH H; CHARRIER J; DAVIES R; FORSTER C; GOLEC J M C; KAY D; KNEGTEL R; LI P; PATEL S; PIERCE A;

WANNAMAKER M

PATENT ASSIGNEE: (VERT-N) VERTEX PHARM INC

COUNTRY COUNT:

PATENT INFORMATION:

PAT	ENT	NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC	
		201263			(200738)*		354[0]			<
AU	2006	201263	B2	20081030	(200929)	EN				

#### APPLICATION DETAILS:

PATI	ENT NO	KIND	 APPLICATION	DATE
AU :	2006201263 2006201263 2006201263 2006201263	A1 B2 Div	AU 2001-290944 AU 2006-201263 AU 2001-290944 AU 2006-201263	20060321 20010914

PRIORITY APPLN. INFO: AU 2006-201263 20060321 AU 2001-290944 20010914

INT. PATENT CLASSIF.: IPC ORIGINAL:

A61K0031-4155 [I,A]; A61K0031-506 [I,A]; A61P0035-00 [I,A]; C07D0401-00 [I,C]; C07D0401-14 [I,A]; C07D0403-00 [I,C]; C07D0401-14 [I,A]; C07D0403-00 [I,C]; C07D0403-12 [I,A]; C07D0403-14 [I,A]; C07D0403-00 [I,C]; C07D0405-14 [I,A]; C07D04071-00 [I,C]; C07D0405-10 [I,C]; C07D0473-00 [I,C]; C07D0473-00 [I,C]; C07D0473-01 [I,A]; C07D0493-00 [I,C]; C07D0493-00 [I,C]; C07D0493-01 [I,A]; C07D0493-01 [I,C]; C07D0493-01 [I,C]; C07D0493-01 [I,C]; C07D0493-01 [I,C]; C07D0493-01 [I,C]; C07D0403-00 [I,C]; C07D0403-

[I,C]; C07D0471-00 [I,C]; C07D0473-00 [I,C]; C07D0493-00 [I,C]; C07D0495-00 [I,C]; C07D0521-00 [I,C]

BASIC ABSTRACT:

AU 2006201263 A1 UPAB: 20090509

NOVELTY - Pyrazole compounds (I) and their derivatives and prodrugs are

new.

DETAILED DESCRIPTION - Pyrazole compounds of formula (I) and their derivatives and prodrugs are new.

Ring D = 5-7 membered monocyclic ring or 8-10 membered bicyclic ring of (hetero)aryl, heterocyclyl (both having 1-4 ring heteroatoms of N, O or S) or carbocyclyl (all substituted at any substitutable ring C by oxo or R5, or at any substitutable ring N by R4);

R-x, R-y = T-R3;

T = a bond or 1-4C alkylidene chain;

R2, R-2a = R or T-W1-R6;

 $R = 1-6C \text{ aliphatic, } 6-10C \text{ aryl, heteroaryl ring of } 5-10 \text{ ring atoms, heterocyclyl ring of } 5-10 \text{ ring atoms (all optionally substituted) or H;} \\ R4 = R7, COR7, CO2 (optionally substituted 1-6C \text{ aliphatic), } CON(R7)2 \text{ or } R7)2 \text{ or } R7$ 

SO2R7; or

$$\label{eq:condition} \begin{split} & \text{NR4R4} = 5\text{--8 membered heterocycly1 or heteroary1 ring;} \\ & \text{R5} = \text{R, halo, OR, C(=0)R, CO2R, COCOR, NO2, CN, S(O)R, SO2R, SR,} \\ & \text{N(R4)2, CON(R4)2, SO2N(R4)2, OC(=0)R, N(R4)COR, N(R4)CO2 (optionally substituted 1-6C aliphatic), N(R4)N(R4)2, C=NN(R4)2, C=N-OR, N(R4)CON(R4)2, N(R4)SO2R, OR C(=0)N(R4)2, C=N-OR, N(R4)CON(R4)2, N(R4)SO2R, OR C(=0)N(R4)2, N(R4)2, N(R4)2,$$

 $\begin{aligned} & \text{W1} = \text{C}(\text{R6}) 2\text{O}, \ \text{C}(\text{R6}) 2\text{S}, \ \text{C}(\text{R6}) 2\text{SO2}, \ \text{C}(\text{R6}) 2\text{N}(\text{R6}), \ \text{C}(\text{R6}) 2\text{N}(\text{R6}),$ 

C(R6) 2N(R6) SO2N(R6), C(R6) 2N(R6) CON(R6) or CON(R6); either

RR6 = H or 1-4C aliphatic group (optionally substituted); or NR6R6 = 5-6 membered heterocyclyl or heteroaryl ring; R7 = H or 1-6C aliphatic group (optionally substituted); or NR7R7 = 5-8 membered heterocyclyl ring or heteroaryl; or

CR-x+CR-y =optionally unsaturated, 5-8 membered ring having 1-3 ring heteroatoms of O, S or N (where any substitutable C on the fused ring is optionally substituted by T-R3 or any substitutable N on the ring is substituted by R4); or

CR-x+CR-y = optionally unsaturated, 5-8 membered ring having 1-3 ring heteroatoms of 0, S or N (where any substitutable C on the fused ring is optionally substituted by T-R3 or any substitutable N on the ring is substituted by R4), or

CR-2+CR-2a = optionally unsaturated, 5-8 membered ring having 1-3 ring heteroatoms of O, S or N, where the ring is optionally substituted by up to 3 halo, oxo, CN, NO2, R7, or V1-R6; and

provided that when ring D is a 6 membered (hetero)aryl ring, R5 is H at each ortho C position of ring D.

An INDEPENDENT CLAIM is included for a composition comprising (I) optionally in combination with a second therapeutic agent.

ACTIVITY - Antidiabetic; Neuroprotective; Nootropic; Neuroleptic; Cytostatic; Anticonvulsant; Antiparkinsonian; Anti-HIV; Cardiovascular-Gen.; Vasotropic; Antiangiogenic; Nephrotropic; Virucide; Antipsoriatic;

Antiarteriosclerotic; Endocrine-Gen.; Immunosuppressive; Antiarthritic; Antirheumatic; CNS-Gen.; Gastrointestinal-Gen.; Osteopathic.

MECHANISM OF ACTION - Protein kinase inhibitor; Glycogen synthase kinase (GSK)-3 activity inhibitor; Aurora activity inhibitor; Glycogen synthesis enhancer; Hyperphosphorylated Tau protein production inhibitor; beta-catenin phosphorylation inhibitor.

(I) were tested for their GSK-3 inhibitory activity using a standard coupled enzyme system. The results showed that the inhibition constant of (I) was less than  $0.1 \; \mathrm{mum}$  or less.

USE - For treating a disease that is alleviated by treatment with an glycogen synthase kinase (GSK)-3 inhibitor, where the disease is diabetes, Alzheimer's disease and schizophrenia or by an aurora inhibitor, where the disease is cancer; to enhance glycogen synthesis; to lower blood levels of glucose; and to inhibit the production of hyperphosphorylated Tau protein and the phosphorylation of beta-catenin (claimed). The composition is useful to treat Huntington's disease, Parkinson's disease, AIDS-associated dementia, amyotrophic lateral sclerosis, multiple sclerosis, cardiomycete hypertrophy, reperfusion/ischemia, baldness, restenosis, angiogenesis, glomerulonephritis, cytomegalovirus, HIV, herpes, psoriasis, atherosclerosis, alopecia, and autoimmune diseases such as rheumatoid arthritis, hypercalcemia, osteoporosis, osteoarthritis, cancer, symptomatic treatment of bone metastasis and Paget's disease. MANUAL CODE: CPI: B06-H; B07-D02; B14-A02A3; B14-A02B1;

B14-C09B; B14-D06C; B14-F01; B14-F02B2; B14-F02D; B14-F02F2; B14-F05; B14-F07; B14-F09; B14-G02D; B14-H01; B14-H01H1; B14-J01; B14-L01; B14-L06; B14-N01A; B14-N10; B14-N16; B14-N17C; B14-F02; B14-S01; B14-S04

TECH

ORGANIC CHEMISTRY - Preparation: Preparation of (I) comprises reaction of 2-methylmalonic acid diethyl ester compounds of formula (1) with amidine compounds of formula (2) to give pyrimidinedione compounds of formula (3); reaction of (3) with phosphoryl chloride and tri-n-propylamine to give dichloropyrimidine compounds of formula (4); reaction of (4) with morpholine and methanol to give mbno-chloropyrimidine compounds of formula (5); and reaction of (5) with 3-aminopyrazole or 3-aminopindazole compounds of formula (6) to give pyrazole compounds of formula (7) (representative of (I)).

ABEX DEFINITIONS - Preferred Definitions: - Ring D = phenyl, pyridinyl, piperidinyl, piperazinyl, pyrrolidinyl, thienyl, azepanyl, morpholinyl, 1,2,3,4-tetrahydroisoguinolinvl, 1,2,3,4-tetrahydroguinolinvl, 2,3-dihydro-1H-isoindoly1, 2,3-dihydro-1H-indoly1, isoquinoliny1, quinolinvl or naphthyl ring (all optionally substituted); - R5 = halo, CN, oxo, -SR, -OR, -N(R4)2, -C(O)R, 5-6 membered heterocyclyl, 6-10C aryl or 1-6C aliphatic (all optionally substituted); - R-2a = H; - W1 = -C(R6)20-, -C(R6)2N(R6), -CO-, -CO2-, -C(R6)OC(O)-, -C(R6)2N(R6)CO- or -CON(R6)-; and - R = 1-6C aliphatic or phenyl. - R-x and R-y are taken together with their intervening atoms to form a 6-membered optionally unsaturated ring having 1-2 ring nitrogens, optionally substituted with halo, CN, oxo, 1-6C alkyl, 1-6C alkoxy, (1-6C alkyl)carbonyl, (1-6C alkyl)sulfonyl, mono- or dialkylamino, mono- or dialkylaminocarbonyl, mono- or -dialkylaminocarbonyloxy, or 5-6 membered heteroaryl; and R2 and R-2a are taken together with their intervening atoms to form an optionally substituted benzo, pyrido, or partially unsaturated 6-membered carbocyclo ring optionally substituted with -halo, oxo, -N(R4)2, -1-4C alkyl, -1-4C haloalkyl, -NO2, -O(1-4C alkyl), -CO2(1-4C alkyl), -CN, -SO2(1-4C alkyl), -SO2NH2, -OC(O)NH2, -NH2SO2(1-4C alkyl), -NHC(O)(1-4C alkyl), -C(O)NH2 or -CO(1-4C alkyl), where the (1-4C alkyl) is a straight, branched or cyclic alkvl.

ADMINISTRATION - Dosage is 0.01-100 mg/kg, administered orally, parenterally (including subcutaneously, intravenously, intramuscularly, intra-asynovially, intrasternally, intrathecally,

intrahepatically, intralesionally or via intracranial injection or infusion), topically, rectally, nasally, buccally, vaginally, via inhalation, spray or an implanted reservoir.

SPECIFIC COMPOUNDS - 31 Compounds (I) are specifically claimed, e.g. (2-(4-methylpiperidin-1-yl)-purin-4-yl)-(5-methyl-2H-pyrazol-3-yl)-amine of formula (Ia).

EXAMPLE - To a suspension of 2,4-dichloro-purine (2 g) in anhydrous ethanol (10 ml) was added 5-methyl-1H-pyrazol-3-yl amine (2.05 g). The resulting mixture was stirred for 48 hours. The resulting precipitate was collected by filtration, washed with ethanol, and dried under vacuum to qive (2-chloro-purin-4-yl)-(5-methyl-1H-pyrazol-3-yl)-amine (A), which was used in the next step without further purification. To a solution of (A) (200 mg) was added 4-methylpiperidine (4 ml) and the reaction mixture heated at reflux overnight. The solvent was evaporated and the residue dissolved in a mixture of ethanol and water (1:3, 4 ml). Potassium carbonate (57 mg) was added and the mixture was stirred for 2 hours. The resulting suspension was filtered, washed with water (twice) and rinsed with ethanol (twice) to give (2-(4-methylpiperidin-1-yl)-purin-4-yl)-(5methv1-2H-pvrazo1-3-v1)-amine (225 mg, 90%).

AN.S DCR-535398

CN.S N-{4-[6-(5-Methyl-1H-pyrazol-3-ylamino)-2-phenyl-pyrimidin-4-ylsulfanyl]phenyl}-acetamide

SDCN RA6Y17

L52 ANSWER 40 OF 50 WPIX COPYRIGHT 2009 THOMSON REUTERS on STN

ACCESSION NUMBER: 2003-342586 [32] WPIX

DOC. NO. CPI: C2003-089955 [32]

Composition useful for controlling weeds in crops e.g. TITLE: corn, sorghum, rice, soyabean comprises phenyluracil

compound and herbicide and/or safener

DERWENT CLASS:

INVENTOR: EVANS R; EVANS R R; LANDES A; LANDES M; NEWSOM L; NEWSOM L J; NEWSON L J; ORTLIP C; ORTLIP C L; OUAKENBUSH L;

OUAKENBUSH L: SIEVERNICH B: WITSCHEL M: ZAGAR C

(BADI-C) BASF AG; (EVAN-I) EVANS R R; (LAND-I) LANDES A;

PATENT ASSIGNEE: (LAND-I) LANDES M; (NEWS-I) NEWSOM L J; (ORTL-I) ORTLIP C L: (OUAK-I) OUAKENBUSH L: (SIEV-I) SIEVERNICH B: (WITS-I)

WITSCHEL M; (ZAGA-I) ZAGAR C; (BADI-C) BASF SE

COUNTRY COUNT: 100

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BR 2002012460	A 2	20041019	(200476)	PT		
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NZ 531486	A 2	20050826	(200560)	EN		
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CN 100493354	C 2	20090603	(200970)	ZH		

## APPLICATION DETAILS:

PATENT NO KIND	APPLICATION DATE
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ZA	2004002791 A				ZA 2	2004-2791 20	040413
CN	100493354 C				CN 2	2002-817977	20020910
ING D	ETAILS:						
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DE	60218707	E	Dogod on		ED.	1429609	
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			Based on				
	2281550		Based on				A
JP		B2	Previous			2005502715	W
EP	1429609	A1	Based on		WO	2003024221	A

NZ 531486 A Based on EP 1429609 B1 Based on WO 2003024221 A DE 60218707 E Based on WO 2003024221 A AU 2002342671 B2 Based on WO 2003024221 A T2 Based on DE 60218707 WO 2003024221 US 7375058 B2 Based on WO 2003024221 A JP 4237622 B2 Based on WO 2003024221 A MX 255891 В Based on WO 2003024221 A

Based on

PRIORITY APPLN. INFO: US 2001-318834P 20010914 US 2001-333135P 20011127 US 2004-488977 20040309

INT. PATENT CLASSIF .:

FIL

MAIN:

A01N043-54 SECONDARY:

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MX 2004002087 A1 Based on JP 2005502715 W Based on

HU 2004002256 A2 Based on

BR 2002012460 A

A01N033-18; A01N035-10; A01N037-22; A01N037-32; A01N037-40; A01N039-02; A01N039-04; A01N041-10; A01N043-10; A01N043-18; A01N043-40; A01N043-50; A01N043-70; A01N043-76; A01N043-80; A01N043-86;

A01N047-30; A01N047-34; A01N047-36; A01N057-20

TPC ORIGINAL: A01N0025-00 [I,C]; A01N0033-00 [I,C]; A01N0033-00 [I,C]; A01N0033-00 [I,C]; A01N0033-18 [I,A]; A01N0033-18 [I,A];

A01N0035-00 [I,C]; A01N0035-00 [I,C]; A01N0035-00 [I,C]; A01N0035-10 [I,A]; A01N0035-10 [I,A]; A01N0037-22 [I,A]; A01N0037-22 [I,A]; A01N0037-22 [I,C]; A01N0037-22 [I,C]; A01N0037-22 [I,C]; A01N0037-32 [I,A]; A01N0037-32 [I,C]; A01N0037-32 [I,C]; A01N0037-36 [I,C]; A01N0037-36 [I,C];

WO 2003024221 A

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WO 2003024221 A

WO 2003024221 A

WO 2003024221 A

A01N0037-40 [I,A]; A01N0039-00 [I,C]; A01N0039-00 [I,C]; A01N0039-00 [I,C]; A01N0039-02 [I,A]; A01N0039-02 [I,A]; A01N0039-04 [I,A]; A01N0041-00 [I,C]; A01N0041-00 [I,C]; A01N0041-00 [I,C]; A01N0041-10 [I,A]; A01N0041-10 [I,A];

A01N0043-02 [I,C]; A01N0043-02 [I,C]; A01N0043-02 [I,C]; A01N0043-10 [I,A]; A01N0043-10 [I,A]; A01N0043-18 [I,A];

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A01N0043-34 [I,C]; A01N0043-34 [I,C]; A01N0043-40 [I,A];
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                     A01N0043-54 [I.A]; A01N0043-54 [I.A]; A01N0043-54 [I.A];
                     A01N0043-64 [I,C]; A01N0043-64 [I,C]; A01N0043-70 [I,A];
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                      A01N0043-80 [I,A]; A01N0043-86 [I,A]; A01N0047-28 [I,C];
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                     A01N0047-30 [I,A]; A01N0047-34 [I,A]; A01N0047-36 [I,A];
                      A01N0057-00 [I.C]: A01N0057-00 [I.C]: A01N0057-00 [I.C]:
                      A01N0057-20 [I,A]; A01N0057-20 [I,A]; A01P0013-00 [I,A];
                      A01P0013-00 [I,C]; A01N0025-00 [I,A]; A01N0043-48 [I,C];
                      A01N0061-00 [I,A]; A01N0061-00 [I,C]
 IPC RECLASSIE.:
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                     A01N0039-04 [I,A]; A01N0041-00 [I,C]; A01N0041-10 [I,A];
                     A01N0043-02 [I,C]; A01N0043-10 [I,A]; A01N0043-18 [I,A];
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                     A01N0043-80 [I,A]; A01N0043-86 [I,A]; A01N0047-28 [I,C];
                     A01N0047-30 [I.A]; A01N0047-34 [I.A]; A01N0047-36 [I.A];
                      A01N0057-00 [I,C]; A01N0057-20 [I,A]; A01N [I,S]
                     A01N0043-54+M
ECLA:
USCLASS NCLM:
                     504/116.100; 504/243.000
JAP. PATENT CLASSIF .:
     MAIN/SEC.:
                     A01N0033-18 B; A01N0035-10; A01N0037-22; A01N0037-32 101;
                     A01N0037-40; A01N0039-02 A; A01N0039-04 A; A01N0041-10 A;
                     A01N0043-10 B; A01N0043-18 Z; A01N0043-40 101 D;
                     A01N0043-40 102; A01N0043-50 Q; A01N0043-54 F;
                     A01N0043-70; A01N0043-76 101; A01N0043-80 101;
                      A01N0043-86 101; A01N0047-30 B; A01N0047-34 G;
                     A01N0047-36 101 E; A01N0057-20 G; A01N0057-20 L;
                     A01P0013-00
          MAIN:
                     A01N0043-54 F
      SECONDARY:
                     A01N0033-18 B; A01N0035-10; A01N0037-22; A01N0037-32 101;
                     A01N0037-40; A01N0039-02 A; A01N0039-04 A; A01N0041-10 A;
                     A01N0043-10 B; A01N0043-18 Z; A01N0043-40 101 D;
                     A01N0043-40 102; A01N0043-50 Q; A01N0043-70; A01N0043-76
                      101; A01N0043-80 101; A01N0043-86 101; A01N0047-30 B;
                     A01N0047-34 G; A01N0047-36 101 E; A01N0057-20 G;
                     A01N0057-20 L: A01P0013-00
FTERM CLASSIF.:
                     4H011; 4H011/AB01; 4H011/BA03; 4H011/BA06; 4H011/BB04;
                      4H011/BB05; 4H011/BB06; 4H011/BB07; 4H011/BB08;
                      4H011/BB09; 4H011/BB10; 4H011/BB14; 4H011/BB17;
                      4H011/DA15; 4H011/DA16; 4H011/DD04; 4H011/DE15;
                      4H011/DF04
BASIC ABSTRACT:
           WO 2003024221 A1
                             UPAB: 20090401
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NOVELTY - A composition comprises at least one phenyluracil compound (I) and/or its salts and at least one of a herbicide (al) or a safener (a2) or

its salts or derivatives.

DETAILED DESCRIPTION - A composition comprises:

(1) at least one phenyluracil compound of formula (I) and/or its salts; and

(2) at least one of a herbicide (al) or its salts or derivatives having a carboxyl group; and/or

(3) a safener (a2) or its salts or derivatives having a carboxyl group.

(al) is a lipid biosynthesis inhibitor, acetolactate synthase (ALS) inhibitor, photosynthesis inhibitor, protoporphyrinogen-IX oxidase inhibitor, bleacher herbicide, enolpyruvyl shikimate 3-phosphate synthase (EPSP) inhibitor, glutamine synthatase inhibitor, 7,8-dihydropteroate synthase (DHP) inhibitor, mitose inhibitor very long chain fatty acids (VLCFA) synthasis inhibitor, cellulose biosynthesis inhibitor, decoupler herbicide, auxin herbicide, auxin ransport inhibitor, benzoylprop, flamprop-M, bromobutide, chlorflurenol, cimmethylin, methyldymuron, etobenzanid, fosamine, metam, pyributicarb, oxaziclomefone, dazomet, triaziflam, or methyl bromide. (a2) is benoxacor, cloquintocet, cyometrinil, dichlormid, dicyclonon, dletholate, fenchlorazole, fenclorim, flurazole, fluxofenim, furilazole, isoxadifen, mefenpyr, mephenate, naphthalic anhydride, 2,2,5-trimethyl-3-(dichloroacetyl)-1,3-oxazolidine, 4-(dichloroacetyl)-1-oxa-4-azspiro(4.5) decane or oxabetrinil.

R1 = methyl or NH2;

R2 = 1-2C haloalkyl;

R3 = H or halo;

R4 = halo or cyano;

R5 = benzyl (optionally substituted by halo or alkyl), H, cyano, 1-6C alkyl, 1-6C alkoxy, 1-4C alkoxy-1-4C alkyl, 3-7C cycloalkyl, 3-6C alkynyl or 3-6C alkenyl;

R6, R7 = benzyl, phenyl, 1-6C alkyl, 1-6C alkoxy, 3-7C cycloalkyl, 3-7C cycloalkenyl, 3-6C alkynyl or 3-6C alkenyl (all optionally mono- hexasubstituted by Halo and/or mono- trisubstituted by T1) or H; or

hexasubstituted by halo and/or mono- - trisubstituted by T1) or  $H_1$  or NRGR7 = 3 - 7 membered optionally saturated nitrogen heterocycle mono- hexa-substituted by methyl and may further contain 1 or 2 N, S, or  $O_1$  and

T1 = OH, NH2, CN, CONH2, formyl, phenyl, benzyl, 1-4C (halo)alkoxy, 1-4C (halo)alkylthio, 1-4C (halo)alkylsulfonyl, 1-4C alkylamino, di(1-4C)alkylamino, 1-4C alkylamino, 1-4C

alkylaminocarbonyl, di(1-4C)alkylaminocarbonyl, or 3-7C cycloalkyl.

ACTIVITY - Post-emergence Herbicide; Pre-emergence Herbicide. A composition comprising 5-(3-amino-2,6-dioxo-4-trifluoromethyl-3,6-dihydro-2H-pyrimidin-1-yl)-2-chloro-4-fluoro-(N-methyl-N-

isopropylaminosulfonyl)benzamide and sulcotrione in a weight ratio of 1:1 was prepared and applied post emergence to a test plant of Echinochloa crus-galli at a rate (g/ha) of 3.91 and 62.5. The damage caused by the composition was evaluated by comparing with the untreated control plants. The composition showed 100% herbicidal action.

MECHANISM OF ACTION - None given.

USE - For controlling weeds in crops e.g. cereals, corn, sorghum, rice, cotton, oilseed rape, soyabean, potatoes, dry beans and groundnuts, perennial crops, forestry, and in crop plants resistant to at least one herbicide or attack by insects owing to genetical engineering and/or breeding; and for desiccation and defoliation of the plants (all claimed). Application is postemergence or pre-emergence.

ADVANTAGE - The composition exhibits an enhanced herbicidal activity through the synergistic action of different herbicides having specific action the composition reduces the application rate of the herbicides and prevents damage to the crop plants. (al) and (a2) improve herbicidal activity of (I) against undesirable plants and also their compatibility with useful plants.

MANUAL CODE: CPI: C02-P02; C05-B01G; C05-B01N; C06-H; C07-H; C10-A08;

C10-A10; C10-A11A; C10-A12A; C10-A12C; C10-A13A; C10-A13B; C10-A12B; C10-A12B; C10-A12B; C10-B04B; C10-C04C; C10-D03; C10-E04B; C10-E04B; C10-G01; C10-G03; C10-E04B; C10-G01; C10-G03; C10-E04B; C10-G01; C10-G03; C10-E04B; C10-G03; C10-E04B; C10-G03; C10-E04B; C10-G03; C10-E04B; C10-G03; C10-E04B; C10-G03; C10-E04B; C10-E04B;

TECH

AGRICULTURE - Preferred Composition: The wt. ratio of (I) to (a1) is 10:1-1:500; (I) to (a2) is 10:1-1:10; and (a1) to (a2) is 50:1-1:10. The composition additionally comprises at least one inert liquid and/or solid carrier and optionally at least one surfactant and auxiliaries. Preferred

Components: The bleacher herbicide is a 3-heterocyclyl-substituted benzoyl derivative of formula (II). R8, R10 = H, halo, 1-6C alkyl, 1-6C haloalkyl, 1-6C haloalkoxy, 1-6C alkylthio, 1-6C alkylsulfinyl or 1-6C alkylsulfonyl; R9 = thiazol-2-yl, thiazol-3-yl, thiazol-4-yl, isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-4-yl, 4,5-dihydroisoxazol-5-yl (all optionally substituted with one or more halo, 1-4C alkyl, 1-4C alkoxy, 1-4C haloalkyl, 1-4C haloalkoxy or 1-4C alkylthio; R11 = H, halo, 1-6C alkvl; R12 = 1-6C alkyl; and R13 = H or 1-6C alkvl.ABEX DEFINITIONS - Preferred Definitions: - R2 = trifluoromethyl; - R3 = fluorine; - R4 = chlorine; - R5 = H; and - R6, R7 = 1-6C alkyl; or - NR6R7 = pyrrolidine, piperidine, morpholine, N-methylpiperazine, or perhydroazepine. ADMINISTRATION - The composition is applied to the leaves of the plants before, during and/or after emergence of the weeds (claimed). The application rate of is 0.001 - 3 (preferably 0.005 - 2, especially 0.01 -1) kg/ha. The composition is applied by spraying, atomizing, dusting, broadcasting, watering. SPECIFIC COMPOUNDS - 361 Compounds are specifically claimed as (a1) e.g. clodinafop, cyhalofop, amidosulfuron, azimsulfuron, atrazine, acifluorfen, norflurazon, (2-chloro-3-(4,5-dihydro-3-isoxazolyl)-4-(methylsulfonyl)phenyl)(5-hydroxy-1-methyl-1H-pyrazol-4-yl)methanone, glyphosate, glufosinate, benfluralin, acetochlor, dichlobenil, dichlorprop, diflufenzopyr, mecoprop, cyanazine, fluoroglycofen, diflufenican, butralin. EXAMPLE - No relevant example given.

AN.S DCR-338180

CN.S 4-(3-Trifluoromethyl-phenoxy)-2-(4-trifluoromethyl-phenyl)-pyrimidine SDCN RA2U09

L52 ANSWER 41 OF 50 WPIX COPYRIGHT 2009 THOMSON REUTERS on STN WPIX

ACCESSION NUMBER: 2002-304090 [34] DOC. NO. CPI:

C2002-088428 [34]

New herbicidal composition comprising a carrier and/or TITLE:

surface active agent and a

2-phenyl-4-(hetero-)arylpyrimidine and an additional

herbicide and/or safening agent

DERWENT CLASS:

INVENTOR: BALTRUSCHAT H S; BALTRUSCHAT S; BRANDT A

PATENT ASSIGNEE: (BADI-C) BASE AG

COUNTRY COUNT: 96

#### PATENT INFORMATION:

PA:	TENT NO	KINI	DATE	WEEK	LA	PG	MAIN I	PC .
WO	2002015694	A2	20020228	(200234)*	EN	57[0]		<
US	20020055435	A1	20020509	(200235)	EN			<
AU	2002010461	A	20020304	(200247)	EN			<
EP	1313369	A2	20030528	(200336)	EN			<
CZ	2003000863	A3	20030618	(200347)	CS			<
SK	2003000350	A3	20030805	(200360)	SK			<
US	6683027	B2	20040127	(200408)	EN			<
HU	2003002950	A2	20040128	(200415)	HU			<
EP	1313369	B1	20050629	(200543)	EN			<
DE	60111749	E	20050804	(200552)	DE			<
DE	60111749	T2	20051215	(200582)	DE			<
AII	2002210461	B2	20061214	(200729)	EN			<

# APPLICATION DETAILS:

PATENT NO KIND	APPLICATION DATE
PATENT NO KIND  WO 2002015694 A2 US 20020054345 A1 Provisional US 6683027 B2 Provisional DE 60111749 E DE 3013369 A2 DE 60111749 T2 US 20020055435 A1 US 6683027 B2 DE 1313369 A2 CZ 2003000863 A3 SX 2003000350 A3	APPLICATION DATE  WO 2001-EP9799 20010824 US 2000-228317F 20000825 US 2000-228317F 20000825 DE 2001-611749 20010824 DE 2001-611749 20010824 EP 2001-978304 20010824 EP 2001-978304 20010824 EP 2001-978304 20010824 EP 2001-978304 20010824 US 2001-938370 20010824 US 2001-938370 20010824 US 2001-938370 20010824 US 2001-BP9799 20010824 WO 2001-EP9799 20010824 WO 2001-EP9799 20010824 WO 2001-EP9799 20010824
SA 2003000390 A3 HU 2003002990 A2 EP 1313369 B1 DE 60111749 E DE 60111749 T2 AU 2002010461 A CZ 2003000863 A3 HU 2003002990 A2 SK 2003000350 A3 AU 2002210461 B2	WO 2001-EF9799 20010824 WO 2001-EF9799 20010824 WO 2001-EF9799 20010824 WO 2001-EF9799 20010824 WO 2001-EF9799 20010824 AU 2002-10461 20010824 CZ 2003-863 20010824 BU 2003-2950 20010824 SK 2003-350 20010824 AU 2002-210461 20010824

# FILING DETAILS:

PA'	TENT NO	KIND			PA:	TENT NO	
DE.	60111749	E	Based	on	EP	1313369	Α
DE	60111749	T2	Based	on	EP	1313369	A
AU	2002010461	A	Based	on	WO	2002015694	A
EP	1313369	A2	Based	on	WO	2002015694	A
CZ	2003000863	A3	Based	on	WO	2002015694	A
SK	2003000350	A3	Based	on	WO	2002015694	A
HU	2003002950	A2	Based	on	WO	2002015694	A
EP	1313369	B1	Based	on	WO	2002015694	A
DE	60111749	E	Based	on	WO	2002015694	A
DE	60111749	T2	Based	on	WO	2002015694	A

20010824

AU 2002210461 B2 Based on WO 2002015694

PRIORITY APPLN. INFO: US 2600-228317P 20000825

US 2001-938370
INT. PATENT CLASSIF.:

MAIN:

IPC ORIGINAL: A01N0043-48 [I,C]; A01N0043-54 [I,A]
IPC RECLASSIF.: A01N0043-48 [I,C]; A01N0043-54 [I,A]

ECLA: A01N0043-54+M

USCLASS NCLM: 504/103.000

NCLS: 504/104.000; 504/105.000; 504/106.000; 504/107.000; 504/108.000; 504/109.000; 504/110.000; 504/111.000;

504/112.000

A01N043-54

BASIC ABSTRACT:

WO 2002015694 A2 UPAB: 20060202

NOVELTY - A new herbicidal composition comprises a carrier and/or surface active agent and a 2-phenyl-4-(hetero-)arylpyrimidine and an additional herbicide and/or safening agent.

DETAILED DESCRIPTION - A novel herbicidal composition comprises a carrier and/or surface active agent and, as active ingredient:

(a) at least one 2-phenyl-4-(hetero-)aryloxyprimidine (I) or their

salts;

(b) at least one additional herbicidal compound, which is active against broad-leaved weeds and/or annual grasses; and/or

(c) at least one additional safening compound.

A=an optionally substituted phenyl, or an optionally substituted 5-or 6-membered N-containing heteroaromatic group or a difluorobenzo-dioxolyl; m=0-2;

n = 0-5:

R1 = halo, optionally substituted alkyl, alkenyl, alkynyl, alkoxy, alkoxyalkyl, dialkoxyalkyl, alkoxyalkoxy, alkylthio, amino, alkylamino, dialkylamino, alkoxyamino or formamidino;

each R2 = halo, optionally substituted alkyl, alkenyl, alkynyl, haloalkyl, haloalkoxy, alkoxy, alkoxy, alkoxyalkyl, alkoxyalkoxy, alkylthio, or haloalkylthio or a nitro, cyano, SF5 or alkylsulfonyl or alkylsulfinyl group. ACTIVITY - Herbicide.

Tests were carried out on the herbicidal performance of the mixed compound (A) (4-(3-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphenoxy)-2-(4-trifluoromethylphe

MECHANISM OF ACTION - None given in the source material,

USE - The compositions can be used for controlling the growth of weeds at a locus before, during or after the emergence of undesired plants (claimed). They can be used for controlling the growth of weeds in cereal crops (claimed). They are used particularly for combating Alopecurus myosuroides, Apera spica-venti, Lolium perenne, Setaria viridis; Galium aparine, Lamium pupureum, Matricaria inodora, Papaver rhoeas, Stellaria media, and/or Veronica persica (claimed). The use offers both foliar and residual activity and may be used to control a broad spectrum of weed species in crops, especially in cereals, e.g. in wheat, barley, rice and maize.

ADVANTAGE - The compositions provide synergistic activity against many broad-leaved weed species and annual grasses. It has been found that injuries on crop plants caused by a compound of group (1) or by a mixture of a compound of group (1) or by a mixture of a compound of group (1) and a compound of group (c) may be reduced by additionally applying a compound of group (c)

MANUAL CODE:

CPI: C06-H; C07-H; C10-A13D; C10-A15; C10-B04A; C10-C03; C14-M01E; C14-M01F; C14-S09; C14-V02B; C14-V03

TECH

AGRICULTURE - (I) are disclosed in e.g. EP0723960. The 2-phenyl-4-(hetero-)aryloxypyrimidine (I) may be e.g. 4-(3-trifluoromethylphenoxy)-2-(4-trifluoromethylphenyl)-pyrimidine. Preferred Inhibitors: the additional herbicidal compound may be lipid biosynthesis inhibitors, acetolactate synthase inhibitors (ALS), photosynthesis inhibitors, protoporphyrinogen-IX-oxidase inhibitors, bleacher herbicides, enolpyruvylshikimate 3-phosphate synthase inhibitors (EPSP), glutamine synthetase inhibitors, dihydropteroate synthase inhibitors (DHP), mitosis inhibitors, cell division inhibitors, cellulose biosynthesis inhibitors, uncoupling herbicides, auxin herbicides, auxin transport inhibitors, or various other herbicides. The lipid biosynthesis inhibitor may be e.g. chlorazifop, clodinafop, clofop, cyhalofop, dichofop, fenoxaprop, fenoxaprop-P, fenthiaprop, fluazifop, fluazifop-P, haloxyfop, haloxyfop-P, isoxapyrifop, propaquizafop, quizalofop, quizalofop-P, isoxapyrifop, proppaquizafop, quizalofop, quizalofop-P, trifop, alloxydim, butroxydim, clethodim, cloproxydim, cycloxydim, profoxydim, sethoxydim, teptaloxydim, tralkoxydim, butylate, cycloate, di-allate, dimepiperate, EPTC, esprocarb, ethiolate, isopolinate, methiobencarb, molinate, orbencarb, pebulate, prosulfocarb, sulfallate, thiobencarb, tiocarbazil, tri-allate, vernolate, bensulide, benfuserate or ethofumesate. The acetolactate synthase inhibitor may be a sulfonyl-urea type herbicide, e.g. amidosulfuron, azimsulfuron, bensulfuron, chlorimuron, chlorsulfuron, cinosulfuron, cyclosulfamuron, ethametsulfuron, ethoxysulfuron, flazasulfuron, flupyrsulfuron, foramsulfuron, halosulfuron, imazosulfuron, iodosulfuron, mesosulfuron, metsulfuron, nicosulfuron, oxasulfuron, primisulfuron, prosulfuron, pyrazosulfuron, rimsulfuron, sulfometuron, sulfosulfuron, thifensulfuron, triazulfuron, tribenuron, trifloxysulfuron, triflusulfuron, tritosulfuron, propoxycarbazon, or flucarbazon; a sulfonamide type herbicide e.g. chloransulam, diclosulam, florasulam, flumetsulam, metoosulam or penoxsulam; an imidazolinon type herbicide e.g. imazamethabenz, imazamox, imazapyr, imazaquin, or imazethapyr; a pyrimidyl ether e.g. bispyribac, pyribenzoxim, pyriftalid, pyrithiobac or pyriminobac. The photosynthesis inhibitor may be a photosynthetic electron transport inhibitor e.g. a triazine type herbicide e.g. ametryn, atraton, atrazine, aziprotyrne, chlorazine, cyanatryn, cyanazine, cyprazine, desmetryne, dimethamethryn, dipropetryn, egliazine, ipazine, mesoprazine, methometon, methoprotryn, procyazine, proglinazine, prometon, prometryn, propazine, sebuthylazine, secbbumeton, simazine, simeton, simetryn, terbumeton, terbutylazine, terbutryn or trietazine; or a urea type herbicide e.g. anisuron. benzthiazuron, buthiiuron, buturon, chlorbromuron, chloreturon, chlorotoluron, chloroxuron, difenoxurom, dimefuron, diuron, ethidimuron, fenuron, fluometuron, fluothiuron, isoproturon, isouron, linuron, methabenzthiazuron, methiuron, metobenzuron, metobromuron, metoxuron, monoisouron, monolinuron, monuron, neburon, parafluron, phenobenzuron, siduron, tobuthiuron, tetrafluron, thiadiazuron, or thiazafluron; another photosynthesis inhibitor e.g. a nitrile type herbicide e.g. bromobonil, bromoxynil, chloroxynil, iodobonil, or ioxynil; a triazinone type herbicide e.g. ametridione, amibuzin, hexazinone, isomethiozin, metamitron, or metribuzin; a uracil type herbicide e.g. bromacil, isocil, lenacil or terbacil; a pyridazinone type herbicide e.g. brompyrazon, chloridazon or dimidazon; a phenyl carbamate type herbicide e.g. desmedipham, phenisopham, or phenmedipham; and amide type herbicide, e.g. propanil; a benzothiadiiazole type herbicide e.g. bentazone, a phenyl pyridazine type herbicide, e.g. pyridate or pyridoafol; a bipyridylium type herbicide e.g. cyperquat, diethamquat, difenzoquat, diquat, morfamquat or paraquat; amicarbazone, bromofenoxim, flumezin, methazole or

## 10/595,734

pentanochlor. The protoporphyrinogen IX oxidase inhibitor may be a

diphenyl ether type herbicide e.g. acifluorfen, bifenox, chlomethoxyfen, chlornitrofen, ethoxyfen, fluorodifen, fluoroglycofen, fluoronitrofen, fomesafen, furyloxyfen, halosafen, lactofen, nitrofen, nitrofluorfen or oxyfluorfen; a N-phenylphthalimide type herbicide e.g. cinidon-ethyl, flumiclorac, flumioxazin, or flumipropyn; a thiiadiazole type herbicide e.g. fluthiiacet ot thidiazzimin; an oxadiazole type herbicide e.g. oxadiazon or oxadiarqvl; azafenidin, carfentrazone, sulfentrazone, pentoxazone, benzfendizone, butafenacil, pyraclonil, profluazol, flufenpyr, flupropacil, nipyraclofen, etnipromid, fluazolate (JV 485) or pyraflufen. The bleacher herbicide may be metflurazon, norflurazon, diflufenican, flufenican, picolinafen, beflubutamid, fluridone, flurochloridone, flurtamone, isoxachlortole, isoxaflutole, mesotrione, sulcotrione, benzofenap, pyrazozlynate, pyrazoxyfenn, benzobicyclon, amitrol, clomazone, aclonifen, ketospiradox or a 3-heterocyclyl substituted benzovl derivative (II). Ra, Rc = H, halo, 1-6C alkyl, 1-6C haloalkyl, 1-6C alkoxy, 1-6C haloalkoxy, 1-6C alkylthio, 1-6C alkylsulfinyl or 1-6C alkylsulfonyl; Rb = a heterocyclic radical selected from thiazol-2-vl, thiazol-4-vl, thiazol-5-yl, isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-4-yl, and 4,5-dihydroisoxazol-5-yl, it being possible for the 9 radicals methioned to be unsubstituted or mono- or polysubstituted by halogen, 1-4C alkyl, 1-4C alkoxy, 1-4C haloalkyl, 1-4C haloalkoxy or 1-4C alkylthio; Rd = H, halo or 1-6C alkyl; Re = 1-6C alkyl; Rf = H or 1-6C alkvl.The enolpyruvylshikimate 3-phosphate synthase inhibitor (EPSP) may be qlyphosate e.g. a glutamine synthetase inhibitor e.g. bilanaphos or glufosinate. The dihydropteroate synthase inhibitor (DHP) may be asulam. The mitosis inhibitor may be a dinitoaniline type herbicide e.q. benfluralin, butralin, dinitramin, ethalfluralin, fluchloralin, isopropalin, methapropalin, nitralin, oryzalin, pendimethalin, prodiamine, profluralin or trifluralin; a phosphoramidate type herbicide e.g. amiprofos-methyl or buutamifos; a pyridazine type herbicide e.g. dithiopyr or thiazopyr; propyzamid, tebutam, chlorthal, carbetamide, chlorbufam, chlorpropham or propham. The cell division inhibitor may be a chloroacetamide type herbicide e.g. acetochlor, alachlor, allidochlor, butachlor, butenachlor, CDEA, delachlor, diethatyl, dimethachlor, dimethenamid, dimethenamid-P, epronaz, metazachlor, metolachlor, S-metolachlor, pethoxamid, pretilachlor, propachlor, propisochlor, pyrachlor, terbuchlor, thenylchlor or xyllachlor; an acetamide type herbicide, diphenamid, napropamide or naproanilide; an oxacetamide type herbicide e.g. flufenacet or mefenacet; fentrazamide, aniliphos, piperophos, cafenstrole, indanofan or tridiphane. The cellulose biosynthesis inhibitor may be dichlobenil, chlorthiamid, isoxaben or flupoxam. The uncoupling herbicide may be dinofenate, dinoprop, dinosam, dinoseb, dinoterb, DNOC, etinofen or medinoterb. The auxin herbicide may be clomeprop, 2,4-D, 2,4-DB, dichlorprop, dichlorprop-P, MCPA, MCPA thioethyl, MCPB, mecoprop, mecoprop-P, 2,4,5-T, chloramben, dicamba, 2,3,6-TBA, tricamba, quinchlorac, quinmerac, clopyralid, fluroxypyr, picloram, trichlopyr, or benazolin. The auxin transport inhibitor may be naptalame or diflufenzopyr. The various other herbicides may be a flurene carboxylic acid e.g. chlorflurenol or flurenol; benzoylprop, flamprop, flamprop-M, bromobutide, cinmethylin, cumyluron, daimuron, methyldymron, etobenzanid, fosamin, metam, pyributicarb, oxaziclomefone, dazomet, triaziflam or methylbromid. The safening compound may be e.g. benoxacor, cloquintocet, cyometrinil, dichlormid, dicyclon, dietholate, fenchlorazole, fenclorim, flurazole, fluxofenim, furilazole, isoxdifen,

mefenpyr, mephenate, naphthalic anhydride, oxabenil or R 29148. The weight

ratio of (I) to the additional herbicide may be 1:0.002 to 1:800, preferably 1:1 to 1:100. The weight ratio of (I) to the additional safening compound may be 1:0.002 to 1:800.

ABEX ADMINISTRATION - (I) may be used at rates of 0.1 - 500, preferably 2 -100g/ha. Component (b) may be used at 0.5 - 4000, preferably 100 -1500g/ha. Component (c) may be used at 1 - 1500, preferably 5 - 1250g/ha. EXAMPLE - A preferred emulsion concentrate comprises compound (A): 4-(3-trifluoromethylphenoxy)-2-(4-trifluoromethyl-phenyl)pyrimidine. Active ingredient: Compound A + isoproturon (1:16) 30 wt.%; Emulsifiers: Altox (RTM) 4856B/Atlox (RTM) 4858 B 5 wt.% (mixture containing calcium alkyl aryl sulfonate, fatty alcohol ethoxylates and light aromatics/mixture containing calcium alkyl aryl sulfonate, fatty alcohol ethoxylates and light aromatics); Solvent: Shellsol (RTM) A (mixture of 9 - 10C aromatic hydrocarbons) to 1000 ml.

AN.S DCR-338180

CN.S 4-(3-Trifluoromethyl-phenoxy)-2-(4-trifluoromethyl-phenyl)-pyrimidine SDCN RAZIJO9

L52 ANSWER 42 OF 50 WPIX COPYRIGHT 2009 THOMSON REUTERS on STN 2002-163728 [21] WPIX

ACCESSION NUMBER: CROSS REFERENCE:

2001-564353 C2002-050498 [21]

DOC. NO. CPI: TITLE:

Production of substituted pyrimidines used in pesticides or in pharmaceuticals, involves reacting amidine compound or its salt, with 3,3-disubstituted vinylcarbonyl

compound in inert solvent in the presence of base

DERWENT CLASS: B03; C02

INVENTOR: GUTHEIL D: MEYER O

PATENT ASSIGNEE: (AMCY-C) AMERICAN CYANAMID CO; (BADI-C) BASF AG COUNTRY COUNT.

#### PATENT INFORMATION:

PA:	TENT	NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC	
	2002			20020110 20030506	(200221)* (200338)	EN EN	7[0]			<

### APPLICATION DETAILS:

US 20020004600 Al Provisional US 1999-129462P 19990415	
US 20020004600 Al Provisional US 1999-129462P 19990415	
US 20020004600 Al Provisional	

US 20020004600 A1 Div Ex

US 20020004600 A1

US 2000-547666 20000412 US 2001-896078 20010629

FILING DETAILS:

PATENT NO KIND PATENT NO US 20020004600 A1 Div ex US 6281358 B

PRIORITY APPLN. INFO: US 2001-896078

US 1999-129462P 19990415 US 1999-139356P 19990615 US 2000-547666

INT PATENT CLASSIF .

IPC RECLASSIF.: C07D0239-00 [I,C]; C07D0239-32 [I,A]; C07D0239-34 [I,A]; C07D0401-00 [I,C]; C07D0401-14 [I,A]; C07D0403-00 [I,C];

C07D0403-12 [I,A]

ECLA: C07D0239-32; C07D0239-34; C07D0401-14+241B+239B+213; C07D0403-12+239B+231

ICO: M07D0239:32; M07D0239:34B; M07D0401:14; M07D0403:12 USCLASS NCLM: 544/319.000

BASIC ABSTRACT:

US 20020004600 A1 UPAB: 20050525

NOVELTY - Substituted pyrimidines, i.e. 4-phenoxy-2-arylpyrimidine, are prepared by reacting an amidine compound or its salt, with a 3,3-disubstituted vinylcarbonyl compound in an inert solvent in the presence of a base.

20010629

DETAILED DESCRIPTION - Preparation of substituted pyrimidines of formula (I), i.e. 4-phenoxy-2-arylpyrimidine, involves reacting an amidine compound of formula H2NC(=NH)R1 (II) or its salt with a 3,3,-disubstituted vinvlcarbonvl compound of formula (L)2C=C(R3)COR4 (III). The process is carried out in an inert solvent in the presence of a base and optionally a compound of formula HXR2.

R1, R2 = optionally substituted alkyl, cycloalkyl, phenyl, heteroaryl;

R3, R4 = H, or optionally substituted alkyl or phenyl;

X = 0 or S; and

L = halo or group of formula XR2.

An INDEPENDENT CLAIM is also included for a compound of formula (Ia). R'1 = optionally substituted 3-8C cycloalkyl or pyrazin-2-yl;

R5 = halo, haloalkyl, or haloalkoxy;

W-V = N-CH, S-CH, N-CH-CH, CH-CH-CH, or N-N(R6); and

R6 = 1-4C alkvl.

ACTIVITY - Pesticide; Herbicide.

No biological data given.

MECHANISM OF ACTION - None given in the source material.

USE - For preparing substituted pyrimidines used in pesticides or pharmaceuticals.

ADVANTAGE - The process effectively and efficiently produces

pyrimidines. MANUAL CODE:

CPI: B07-D12; B14-B01; C07-D12; C14-B01; C14-V01

TECH ORGANIC CHEMISTRY - Preferred Component: The base is alkali

hydrogencarbonates, alkali carbonate, or tertiary amines. The inert diluent is acetonitrile, benzene, toluene, xylene, hexane, cyclohexane, dichloromethane, tetrachloromethane, diethylether, diisopropyl ether, tert-butylmethyl ether, 2,2,-dimethoxypropane, dimethoxyethane, diethoxyethane, tetrahydrofuran, tetrahydropyran, dimethylformamide, dimethylacetamide, N-methylpyrrolidone, dimethylformamide, dimethylacetamide, N-methylpyrrolidone, dimethylsulfoxide, and/or dioxane. Preferred Process: The molar ratio of (II) to (III) is 1:5-1:0.5. The

reaction step also includes stirring a mixture consisting of (II), (III),

inert diluent, base, and optionally substituted alcohol, thioalcohol, phenol, or thiophenol at 0-150degreesC. The reaction is preferably carried out in the presence of 3-trifluoromethylphenol. (III) Is prepared by in situ hydrolysis of 1,1,1,3-tetrachloro-3-alkoxypropane.

ABEX DEFINITIONS - Preferred Definitions: - R2 = phenvl substituted by at least one halo, at least one alkyl, alkoxy, haloalkyl, or haloalkoxy; - R1 = R2, preferably 4-trifluoromethylphenyl; and - X = 0. SPECIFIC COMPOUNDS - (III) Is 3,3-dichloroacrolein. EXAMPLE - A 10 mmol of 3.3-dichloroacrolein diluted with 50 ml acetonitrile was slowly added to a mixture composed of (mmol) 4-trifluoromethylphenol (11), potassium carbonate (40), and 100 ml acetonitrile, and stirred under reflux. After addition of 3,3-dichloroacrolein was completed, additional 4-trifluoromethylbenzamidine (0.5) was added. The reaction mixture was

stirred for 20 hours under reflux and subsequently cooled down, and then filtered through silica. The organic phase was washed with ethyl acetate and concentrated under vacuum. The residue was purified on aluminum oxide, vielding a 3.25 g (85%) of 4-(3-trifluoromethylphenoxy)-2-(4trifluoromethylphenyl)-pyrimidine.

AN.S DCR-338180

CN.S 4-(3-Trifluoromethyl-phenoxy)-2-(4-trifluoromethyl-phenyl)-pyrimidine SDCN RA2U09

L52 ANSWER 43 OF 50 WPIX COPYRIGHT 2009 THOMSON REUTERS on STN ACCESSION NUMBER: 2001-564353 [63] WPIX

CROSS REFERENCE: 2002-163728 DOC. NO. CPI: C2001-167459 [63]

TITLE: Preparation of substituted pyrimidine used in pesticides, involves reacting an amidine and 3,3-di substituted vinvlcarbonvl compound in an inert solvent in the

presence of a base, halogenated compound

DERWENT CLASS: B03: C02

INVENTOR: GUTHEIL D; MEYER O

PATENT ASSIGNEE: (AMCY-C) AMERICAN CYANAMID CO

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC	
US 6281358	В1	20010828	(200163)*	EN	6101		<

APPLICATION DETAILS:

## 10/595,734

ADDITOR MICH

PATENT NO	KIND	APPLICATION	DATE
US 6281358 B1 F US 6281358 B1 F US 6281358 B1		US 1999-1294628 US 1999-1393568 US 2000-547666	19990615
PRIORITY APPLN. INFO:		20000412	
	US 1999-129462P	19990415	
	us 1999-139356p	19990615	
INT. PATENT CLASSIF .:			
IPC RECLASSIF.:	C07D0239-00 [I,C]; C	07D0239=32 [T.A]	: C07D0239=34 [T.Al:
110 11202110011	C07D0401-00 [I,C]; C		
		07D0401-14 [1,A	[, CO/DO403-00 [1,C],
	C07D0403-12 [I,A]		
ECLA:	C07D0239-32; C07D023		14+241B+239B+213;
	C07D0403-12+239B+231		
ICO:	M07D0239:32; M07D023	9:34B; M07D0401:	:14; M07D0403:12
DACTO ADOTDACT.			

BASIC ABSTRACT: US 6281358 B1 UPAB: 20050526

NOVELTY - Preparation of substituted pyrimidine (I) involves reacting an amidine (II) with 3,3-disubstituted vinylcarbonyl compound (III). The reaction is carried out in an inert solvent in the presence of a base and halogenated compound (IV) or in an inert solvent and in the presence of a

DETAILED DESCRIPTION - Preparation of substituted pyrimidine of formula (I) involves reacting an amidine of formula (II) with 3.3-disubstituted vinvl carbonyl compound of formula (III). The reaction is carried out (a) in an inert solvent in the presence of a base and halogenated compound of formula H-X-R2 (IV) or (b) in an inert solvent and in the presence of a base.

R1, R2 = optionally substituted (cyclo)alkyl, phenyl or heteroaryl

group;

DAMENIM NO

R3, R4 = H or optionally substituted alkyl or phenyl group; X = 0 or S;

L = halo or a group of formula -X-R2.

ACTIVITY - Pesticidal: Herbicidal. MECHANISM OF ACTION - None given.

USE - Used in pesticidal, pharmaceutical compounds and herbicidal compounds.

ADVANTAGE - The process is efficient and the compounds enhance herbicidal activity, influence persistence of action, soil or plant penetration or any other desirable property of the herbicidal compound. MANUAL CODE: CPI: B06-H; B07-D12; B07-H; B14-B01; C06-H; C07-D12;

C07-H; C14-B01; C14-V01

TECH

ORGANIC CHEMISTRY - Preferred Base: The base is selected from alkali hydrogen carbonate, alkali carbonate and tertiary amines. Preferred Molar Ratio: The molar ratio of amidine to 3,3-disubstituted vinylcarbonyl compound is 1:5-1:0.5. Preferred Process: The reaction further comprises stirring a consisting essentially of amidine of formula (II), 3,3-disubstituted vinyl carbonyl compound of formula (III), an inert diluent, base, optionally substituted alcohol, thioalcohol, phenol, thiophenol at 0-150degreesC. The reaction is carried out in presence of phenol substituted by at least one halogen atom and/or at least one alkyl, alkoxy, haloalkyl or haloalkoxy group. The reaction is preferably carried out in presence of 3-trifluoromethylphenol. Preferred Inert Diluent: The inert diluent is selected from acetonitrile, benzene, toluene, xylene, hexane, cyclohexane, dichloromethane, tetrachloromethane, diethyl ether, diisopropylether, tert-butylmethylether, 2,2-dimethoxypropane, dimethoxyethane, diethoxyethane, tetrahydrofuran, tetrahydropyran, dimethylformamide, dimethylacetamide, N-methylpyrrolidone, dimethylsulfoxide, dioxane and

their mixture.

ABEX DEFINITIONS - Preferred Definitions: - R1 = phenyl group substituted by at least one H or at least one alkyl, alkoxy, haloalkyl or haloalkoxy group, preferably 4-trifluoromethyl phenyl group SPECIFIC COMPOUNDS - The 3,3-disubstituted vinylcarbonyl compound is 3,3-dichloroacrolein of formula (IIIa) (claimed). The preparation of 17 examples of (I) is disclosed e.g. 2-(4-chlorophenyl)-4-(3trifluormethylphenoxy)pyrimidine of formula (Ia). EXAMPLE - (In mmoles) 3.3-dichloroacrolein (10) diluted with 50 ml of acetonitrile was slowly added to the mixture of 4-trifluoromethylbenzamidine (10), 3-trifluoromethylphenol (11), potassium carbonate (40) and 100 ml of acetonitrile. The mixture was stirred under reflux. Additionally 4-trifluoromethyl benzamidine (0.5) was added when the addition of 3,3-dichloroacrolein was completed. The reaction mixture was stirred for 20 hours under reflux and cooled to ambient temperature and filtered through silica. The organic phase was washed with ethyl acetate and concentrated in vacuum. The residue was purified by chromatography on alumina and 3.25 g of pure 4-(3-trifluoromethylphenoxy)-2-(4-trifluoromethyl phenyl)-pyrimidine was obtained at a yield of 85%. The product had melting point at 66-67deareesC.

AN.S DCR-338181

CN.S 2-(4-Chloro-phenyl)-4-(3-trifluoromethyl-phenoxy)-pyrimidine

SDCN RAZUOA

AN.S DCR-338182

CN.S 2-(4-Fluoro-phenyl)-4-(3-trifluoromethyl-phenoxy)-pyrimidine

SDCN RA2UOB

ACCESSION NUMBER: DOC. NO. CPI:

TITLE:

L52 ANSWER 44 OF 50 WPIX COPYRIGHT 2009

2001-015752 [02] WPIX

C2001-004195 [02]

Preparation of partly new 4-substituted pyrimidines useful as or intermediates for e.g. pesticides, by reacting an amidine with a 3,3-disubstituted

THOMSON REUTERS on STN

## 10/595,734

vinylcarbonyl compound in the presence of a base and

optionally a thiol or alcohol

DERWENT CLASS: B03; C02

INVENTOR: GUTHEIL D; MEYER O

PATENT ASSIGNEE: (AMCY-C) AMERICAN CYANAMID CO; (BADI-C) BASF AG

COUNTRY COUNT: 8

## PATENT INFORMATION:

PATENT NO	KIND D		WEEK			MAIN IPC	
WO 2000063183	A1 20						<
AU 2000043371	A 20	001102	(200107)	EN			<
CZ 2001003691	A3 20	020417	(200231)	CS			<
EP 1200414	A1 20	020502	(200236)	EN			<
SK 2001001475	A3 20	020509	(200239)	SK			<
KR 2002000167	A 20	020104	(200244)	KO			<
HU 2002000830	A2 20	020729	(200258)	HU			<
CN 1355792	A 20	020626	(200263)	ZH			<
JP 2002542233	W 20	021210	(200301)	JA	23		<
ZA 2001008392	A 20	021224	(200309)	EN	32		<
MX 2001010390	A1 20	020401	(200363)	ES			<
EP 1200414	B1 20	050420	(200528)	EN			<
AU 780907	B2 20	050421	(200532)	EN			<
DE 60019606	E 20	050525	(200538)	DE			<
BR 2000012736	A 20	050705	(200545)	PT			<
DE 60019606	T2 20	050818	(200554)	DE			<
ES 2240093	T3 20	051016	(200571)	ES			<
CN 1161342	C 20	040811	(200612)	ZH			<
MX 228876	B 20	050704	(200627)	ES			<
IL 145888	A 20	060820	(200672)	EN			<
SK 285728	B6 20	070706	(200753)	SK			<
KR 781851	B1 20	071203	(200843)	KO			<

## APPLICATION DETAILS:

PATENT NO KIND	APPLICATION DATE
WO 2000063183 A1 AU 2000043371 A AU 780907 B2 BR 2000012736 A CN 1355792 A	WO 2900-US9522 20000410 AU 2000-43371 20000410 AU 2000-43371 20000410 ER 2000-12736 20000410 CN 2000-807931 20000410 CN 2000-807931 20000410
DE 60019606 E DE 60019606 T2 EP 1200414 AI	DE 2000-60019606 20000410 DE 2000-60019606 20000410 DE 2000-923205 20000410
DE 60019606 E DE 60019606 T2	EP 2000-923205 20000410 EP 2000-923205 20000410 EP 2000-923205 20000410
ES 2240093 T3 IL 145888 A JP 2002542233 W	EP 2000-923205 20000410 IL 2000-145888 20000410 JP 2000-612275 20000410
CZ 2001003691 A3 EP 1200414 A1 SK 2001001475 A3	WO 2000-US9522 20000410 WO 2000-US9522 20000410 WO 2000-US9522 20000410
KR 2002000167 A HU 2002000830 A2 JP 2002542233 W MX 2001010390 A1	WO 2000-US9522 20000410 WO 2000-US9522 20000410 WO 2000-US9522 20000410 WO 2000-US9522 20000410

EP 1200414 B1	WO 2000-US9522 20000410
DE 60019606 E	WO 2000-US9522 20000410
BR 2000012736 A	WO 2000-US9522 20000410
DE 60019606 T2	WO 2000-US9522 20000410
MX 228876 B	WO 2000-US9522 20000410
SK 285728 B6	WO 2000-US9522 20000410
CZ 2001003691 A3	CZ 2001-3691 20000410
SK 2001001475 A3	SK 2001-1475 20000410
SK 285728 B6	SK 2001-1475 20000410
ZA 2001008392 A	ZA 2001-8392 20011012
KR 2002000167 A	KR 2001-713141 20011015
MX 2001010390 A1	MX 2001-10390 20011015
MX 228876 B	MX 2001-10390 20011015
HU 2002000830 A2	HU 2002-830 20000410
KR 781851 B1	WO 2000-US9522 20000410
KR 781851 B1	KR 2001-713141 20011015

## FILING DETAILS:

ECLA:

PATENT NO	KIND		PATENT NO	
AU 780907	B2	Previous Publ	AU 2000043371	A
DE 60019606	E	Based on	EP 1200414	A
DE 60019606	T2	Based on	EP 1200414	A
ES 2240093	T3	Based on	EP 1200414	A
SK 285728	B6	Previous Publ	SK 200101475	A
AU 2000043371	A	Based on	WO 2000063183	Α
CZ 2001003691	A3	Based on	WO 2000063183	Α
EP 1200414	A1	Based on	WO 2000063183	Α
SK 2001001475	A3	Based on	WO 2000063183	Α
KR 2002000167	A	Based on	WO 2000063183	Α
HU 2002000830	A2	Based on	WO 2000063183	A
JP 2002542233	W	Based on	WO 2000063183	A
MX 2001010390	A1	Based on	WO 2000063183	A
EP 1200414	B1	Based on	WO 2000063183	A
AU 780907	B2	Based on	WO 2000063183	A
DE 60019606	E	Based on	WO 2000063183	Α
BR 2000012736	A	Based on	WO 2000063183	Α
DE 60019606	T2	Based on	WO 2000063183	Α
MX 228876	В	Based on	WO 2000063183	Α
IL 145888	A	Based on	WO 2000063183	Α
SK 285728	B6	Based on	WO 2000063183	A
KR 781851	B1	Previous Publ	KR 2002000167	A
KR 781851	B1	Based on	WO 2000063183	A

PRIORITY APPLN. INFO: US 1999-333528 19990615 US 1999-292442 19990415 INT. PATENT CLASSIF .: MAIN: C07D239-34; C07D409-12 C07D401-14; C07D403-12 SECONDARY: IPC ORIGINAL: C07D0239-00 [I,C]; C07D0239-34 [I,A]; C07D0403-00 [I,C]; C07D0403-12 [I,A]; C07D0409-00 [I,C]; C07D0409-00 [I,C]; C07D0409-12 [I,A]; C07D0409-12 [I,A] IPC RECLASSIF .: C07D [I,S]; C07D0239-00 [I,C]; C07D0239-00 [I,C]; C07D0239-34 [I,A]; C07D0239-38 [I,A]; C07D0401-00 [I,C]; C07D0401-14 [I,A]; C07D0403-00 [I,C]; C07D0403-00 [I,C]; C07D0403-12 [I,A]; C07D0409-00 [I,C]; C07D0409-00 [I,C];

C07D0409-12 [I,A]; C07D0521-00 [I,A]; C07D0521-00 [I,C]

C07D0231-12; C07D0233-56; C07D0239-34; C07D0239-34B; C07D0239-38; C07D0249-08; C07D0401-14+241B+239B+213;

812

# 10/595,734 C07D0403-12+239B+231; C07D0521-00B2H

C07D0239-34; C07D0401-14; C07D0403-12

M07D0521:00B2H

M07D0239:34B; M07D0239:38; M07D0401:14; M07D0403:12;

FTERM CLASSIF .: 4C020; 4C063; 4C063/AA01; 4C063/AA03; 4C063/BB01; 4C063/BB08; 4C063/CC29; 4C063/CC34; 4C063/DD22; 4C063/DD29; 4C063/EE01 BASIC ABSTRACT: WO 2000063183 A1 UPAB: 20060116 NOVELTY - Preparation of substituted pyrimidines (I) comprises reacting an amidine (II) with a 3.3-disubstituted vinvlcarbonvl compound (III) in an inert solvent and in the presence of a base and optionally a thiol or alcohol derivative (IV). DETAILED DESCRIPTION - Preparation of substituted pyrimidines of formula (I) comprises reacting an amidine of formula (II) or its salt with a 3,3-disubstituted vinylcarbonyl compound of formula (III) in an inert solvent and in the presence of a base and a compound of formula H-X-R2 (IV) or, if L = -X-R2, in the presence of an inert solvent and base. R1, R2 = optionally substituted alkyl, cycloalkyl, phenyl or heteroarvl: R3, R4 = H or optionally substituted alkyl or phenyl; X = 0 or S: L = halo or XR2.An INDEPENDENT CLAIM is included for compounds of formula (IA). R1a = optionally substituted 3-8C cycloalkyl or pyrazin-2-vl; R5 = halo, haloalkyl or haloalkoxy; W-V = N-CH, S-CH, N-CH-CH, CH-CH-CH or N-NR6; R6 = 1-4C alkvl.USE - The process is useful for preparing 4-substituted pyrimidines which are effective as pharmaceuticals or pesticides and especially certain compounds are stated to have herbicidal activity. ADVANTAGE - The process allows preparation of (I) on a large scale. CPI: B07-D12; C07-D12; C14-V01 MANUAL CODE: TECH ORGANIC CHEMISTRY - Preferred Process: The base is preferably an alkali hydrogen carbonate, an alkali carbonate or a tertiary amine and the ratio of (II) to (III) is preferably 1:5 to 1:0.5. The solvent is preferably acetonitrile, benzene, toluene, xylene, hexane, cyclohexane, dichloromethane, tetrachloromethane, diethylether, diisopropylether, tert-butylmethylether, 2,2-dimethoxypropane, dimethoxyethane, diethoxyethane, tetrahydrofuran, tetrahydropyran, dimethylformamide, dimethylacetamide, N-methylpyrrolidone, dimethylsulfoxide or dioxane. The reaction is preferably carried out in the presence of 3-trifluoromethylphenol and the vinylcarbonyl compound is preferably 3,3-dichloroacrolein, preferably prepared in situ by hydrolysis of 1,1,1,3-tetrachloro-3-alkoxypropane. ABEX DEFINITIONS - Preferred Definitions: - R1 = 4-trifluoromethylphenyl.

AN.S DCR-338180

66 - 67 degreesC).

ICO:

JAP. PATENT CLASSIF.: MAIN/SEC.:

CN.S 4-(3-Trifluoromethyl-phenoxy)-2-(4-trifluoromethyl-phenyl)-pyrimidine SDCN RA2U09

EXAMPLE - A solution of 3,3-dichloroacrolein (10 mmoles) in MeCN (50 ml) was added slowly to a mixture of 4-trifluoromethylbenzamidine (10 mmoles), 3-trifluoromethylbenzamidine (10 mmoles), 3-trifluoromethylbenzamidine (0.5 mmoles) was added and the mixture was stirred under reflux for 20 hours. The cooled mixture was filtered through silica and washed (EtOAc) and concentrated. The residue was purified by chromatography to give 3.25 g of

4-(3-trifluoromethylphenoxy)-2-(4-trifluoromethylphenyl)-pyrimidine (m.pt.

AN.S DCR-338181

CN.S 2-(4-Chloro-phenyl)-4-(3-trifluoromethyl-phenoxy)-pyrimidine

SDCN RA2UOA

AN.S DCR-338182

CN.S 2-(4-Fluoro-phenyl)-4-(3-trifluoromethyl-phenoxy)-pyrimidine

SDCN RA2UOB

=> d ibib ed ab ind 45-50

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS, WPIX, BIOSIS' - CONTINUE? (Y)/N:v

L52 ANSWER 45 OF 50 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:570340 BIOSIS Full-text DOCUMENT NUMBER:

PREV200200570340

TITLE:

Endothelin ETB receptor-mediated mechanisms involved in oleic acid-induced acute lung injury in mice.

AUTHOR(S): Guimaraes, Claudio L.; Trentin, Patricia G.; Rae, Giles A.

[Reprint author]

88015-420, Brazil

Department of Pharmacology, CCB, Universidade Federal de Santa Catarina, Rua Ferreira Lima, 82, Florianopolis, SC,

garae@farmaco.ufsc.br

SOURCE: Clinical Science (London), (August, 2862) Vol.

103, No. Suppl. 48, pp. 340S-344S. print.

CODEN: CSCIAE, ISSN: 0143-5221.

DOCUMENT TYPE: Article

LANGUAGE: English

CORPORATE SOURCE:

ENTRY DATE: Entered STN: 7 Nov 2002

Last Updated on STN: 7 Nov 2002

ED Entered STN: 7 Nov 2002

Last Updated on STN: 7 Nov 2002

AB The receptors underlying the endothelin-dependent component of lung plasma extravasation and leucocyte infiltration induced by oleic acid were assessed in mice. Oleic acid (1 mgcntdotkg-1 intravenously), but not endothelin-1 (up to 1 nmolcotdotkg-1 intravenously), increased accumulation of Evans blue in the lungs (excluding the trachea and main bronchi) from 11.8+-3.9 to 98.6+-10.7 mug 1 h after injection. Bosentan, the antagonist of endothelin receptors (ETA and ETB) or the selective ETB receptor antagonists Ro 46-8443 or A-192621 (administered 1 h before oleic acid at doses of 30, 10 and 30 mgcntdotkg-1 respectively) reduced the effect of oleic acid by 71%, 58% and 79% respectively. However, the selective ETA receptor antagonist A-127722.5 (10 mgcntdotkg-1) was inactive. Oleic acid (2 mgcntdotkg-1, intravenously) raised the number of total leucocytes, mononuclear cells and neutrophils in broncho-alveolar lavage fluid 4 h after injection. Bosentan and Ro 46-8443 (at doses of 30 and 10 mgcntdotkg-1 respectively) inhibited the neutrophil infiltration induced by oleic acid by approx. 80%. None of the antagonists modified control (basal) pulmonary microvascular permeability or total and differential cell counts. Thus, endogenous endothelins, acting via ETB receptor-dependent mechanisms, play a major role in oleic acid-induced lung injury in the mouse by promoting infiltration of circulating neutrophils and enhancement of pulmonary microvascular plasma extravasation. These findings suggest that either ETB or mixed ETA/ETB receptor antagonists might be beneficial in the treatment of the adult respiratory distress syndrome.

CC Cytology - Animal 02506

Biochemistry studies - Lipids 10066

Pathology - Therapy 12512

Blood - Blood and lymph studies 15002

Blood - Blood cell studies 15004

Respiratory system - Physiology and biochemistry 16004

Respiratory system - Pathology 16006

Pharmacology - General 22002

Toxicology - General and methods 22501

Immunology - General and methods 34502

IT Major Concepts

Pharmacology; Respiratory System (Respiration); Toxicology

IT Parts, Structures, & Systems of Organisms

leukocyte: blood and lymphatics, immune system; leukocytes: blood and lymphatics, immune system; lung: respiratory system; mononuclear cells: blood and lymphatics, immune system; neutrophils: blood and lymphatics, immune system

IT Diseases

acute lung injury: injury, respiratory system disease, chemically-induced

IT Diseases

respiratory distress syndrome: respiratory system disease Respiratory Distress Syndrome (MeSH)

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IT Chemicals & Biochemicals
       A-127722.5: endothelin A receptor antagonist; A-192621: endothelin B
       receptor antagonist; Ro 46-8443; endothelin B receptor antagonist;
       bosentan: endothelin A receptor antagonist, endothelin B receptor
       antagonist; endothelin A receptor; endothelin B receptor; endothelin-I;
       oleic acid
ORGN Classifier
                86375
       Muridae
    Super Taxa
       Rodentia; Mammalia; Vertebrata; Chordata; Animalia
    Organism Name
       mouse: male, strain-Swiss
    Taxa Notes
       Animals, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman Mammals,
       Rodents, Vertebrates
    195529-54-5 (A-192621)
      175556-12-4 (Ro 46-8443)
    147536-97-8 (bosentan)
    123626-67-5 (endothelin-I)
    112-80-1 (oleic acid)
L52 ANSWER 46 OF 50 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
ACCESSION NUMBER: 2002:599495 BIOSIS Full-text
DOCUMENT NUMBER: PREV200200599495
TITLE:
                   Function of the endothelinB receptor in cardiovascular
                   physiology and pathophysiology.
AUTHOR(S):
                   D'Orleans-Juste, P. [Reprint author]; Labonte, J.; Bkailv,
                   G.; Choufani, S.; Plante, M.; Honore, J. C.
CORPORATE SOURCE: Department of Pharmacology, Institut de Pharmacologie de
                   Sherbrooke, Medical School, Universite de Sherbrooke, 3001
                   12th Avenue North, Sherbrooke, Quebec, J1H 5N4, Canada
                   labpdj@courrier.usherb.ca
                   Pharmacology and Therapeutics, (September, 2002)
SOURCE:
                   Vol. 95, No. 3, pp. 221-238. print.
                   CODEN: PHTHDT, ISSN: 0163-7258.
DOCUMENT TYPE:
                   Article
                   General Review; (Literature Review)
LANGUAGE:
                   English
ENTRY DATE:
                   Entered STN: 20 Nov 2002
                   Last Updated on STN: 20 Jan 2003
    Entered STN: 20 Nov 2002
ED
    Last Updated on STN: 20 Jan 2003
    Cytology - Animal 02506
    Cytology - Human 02508
    Biochemistry studies - General 10060
    Biochemistry studies - Proteins, peptides and amino acids
    Biochemistry studies - Lipids 10066
    Enzymes - General and comparative studies: coenzymes
    Pathology - Therapy
                          12512
    Digestive system - Physiology and biochemistry
    Cardiovascular system - Physiology and biochemistry 14504
    Cardiovascular system - Heart pathology 14506
    Cardiovascular system - Blood vessel pathology
    Urinary system - Physiology and biochemistry
    Urinary system - Pathology 15506
    Respiratory system - Physiology and biochemistry 16004
    Reproductive system - Physiology and biochemistry 16504
    Endocrine - General 17002
    Muscle - Physiology and biochemistry 17504
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Integumentary system - Physiology and biochemistry 18504
     Pharmacology - General
                              22002
     Pharmacology - Clinical pharmacology 22005
     Development and Embryology - General and descriptive
                                                            25502
    Major Concepts
        Biochemistry and Molecular Biophysics; Cardiovascular System (Transport
        and Circulation); Urinary System (Chemical Coordination and
        Homeostasis)
     Parts, Structures, & Systems of Organisms
        adrenal gland: endocrine system; artery: circulatory system;
        endothelial cells: circulatory system; heart: circulatory system;
       kidney: excretory system; liver: digestive system; lung: respiratory
       system; myometrium: muscular system, reproductive system; saphenous
       vein: circulatory system; skin: integumentary system; umbilical vein:
        circulatory system, embryonic structure; vascular smooth muscles:
       circulatory system, muscular system
    Diseases
       atherosclerosis: vascular disease
        Arteriosclerosis (MeSH)
     Diseases
       cardiovascular diseases: heart disease, vascular disease
       Cardiovascular Diseases (MeSH)
        congestive heart failure: heart disease
        Heart Failure, Congestive (MeSH)
     Diseases
        primary pulmonary hypertension: vascular disease
        Hypertension, Pulmonary (MeSH)
     Diseases
        renal failure: urologic disease
       Kidney Failure (MeSH)
     Diseases
        renal ischemia: urologic disease, vascular disease
        Ischemia (MeSH)
    Chemicals & Biochemicals
        4-ALA-ET-1: endothelin-BR agonist; BQ-209670:
        endothelin-AR/endothelin-BR antagonist; BO-238:
        endothelin-AR/endothelin-BR antagonist; BQ-3020: endothelin-BR agonist;
        BQ-928: endothelin-AR/endothelin-BR antagonist; G-protein-coupled
        endothelin-BRS; IRL-1620: endothelin-BR agonist; L-744-753:
        endothelin-AR/endothelin-BR antagonist; PABSA:
       endothelin-AR/endothelin-BR antagonist; PD 145065:
       endothelin-AR/endothelin-BR antagonist; RO-46-2005;
       endothelin-AR/endothelin-BR antagonist; RO-46-8443:
       endothelin-AR/endothelin-BR antagonist; RO-61-0612;
       endothelin-AR/endothelin-BR antagonist; STX-S6c: endothelin-BR agonist;
        TAK-044: endothelin-AR/endothelin-BR antagonist; endothelial-derived
       relaxing factors; endothelin-1: mitogenic properties, vasoactive
       effects; endothelin-A receptors; endothelin-A-G-protein-coupled
        receptor-like proteins; endothelin-B receptor: clearance, function,
       pharmacology; mitogen-activated protein kinase; nitric oxide;
       prostacyclin; tyrosine kinases
     Miscellaneous Descriptors
        cardiovascular pathophysiology; cardiovascular physiology;
        pharmacological tools; vascular tone
ORGN Classifier
       Canidae
                85765
     Super Taxa
        Carnivora; Mammalia; Vertebrata; Chordata; Animalia
     Organism Name
```

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doa
     Taxa Notes
        Animals, Carnivores, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman
        Mammals, Vertebrates
ORGN Classifier
        Caviidae
                 86300
     Super Taxa
        Rodentia; Mammalia; Vertebrata; Chordata; Animalia
     Organism Name
        quinea piq
     Taxa Notes
        Animals, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman Mammals,
        Rodents, Vertebrates
ORGN Classifier
        Felidae 85770
     Super Taxa
        Carnivora; Mammalia; Vertebrata; Chordata; Animalia
     Organism Name
        cat
     Taxa Notes
        Animals, Carnivores, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman
       Mammals, Vertebrates
ORGN Classifier
        Hominidae 86215
     Super Taxa
        Primates; Mammalia; Vertebrata; Chordata; Animalia
     Organism Name
        human
     Taxa Notes
        Animals, Chordates, Humans, Mammals, Primates, Vertebrates
ORGN Classifier
                  86040
        Leporidae
     Super Taxa
        Lagomorpha; Mammalia; Vertebrata; Chordata; Animalia
     Organism Name
        rabbit
     Taxa Notes
        Animals, Chordates, Lagomorphs, Mammals, Nonhuman Vertebrates, Nonhuman
        Mammals, Vertebrates
ORGN Classifier
        Muridae
                86375
     Super Taxa
        Rodentia: Mammalia: Vertebrata: Chordata: Animalia
     Organism Name
       mouse
        rat
     Taxa Notes
        Animals, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman Mammals,
        Rodents, Vertebrates
ORGN Classifier
        Mustelidae 85780
     Super Taxa
        Carnivora; Mammalia; Vertebrata; Chordata; Animalia
     Organism Name
        ferret
     Taxa Notes
        Animals, Carnivores, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman
        Mammals, Vertebrates
ORGN Classifier
        Suidae
               85740
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## 10/595,734

Artiodactyla; Mammalia; Vertebrata; Chordata; Animalia

Super Taxa

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Organism Name
        piq
     Taxa Notes
        Animals, Artiodactyls, Chordates, Mammals, Nonhuman Vertebrates,
        Nonhuman Mammals, Vertebrates
     143113-45-5 (BO-3020)
RN
     166735-10-0 (BO-928)
     142569-99-1 (IRL-1620)
     151039-37-1 (PD 145065)
     150725-87-4 (RO-46-2005)
       175556-12-4 (RO-46-8443)
     157380-72-8 (TAK-044)
     90880-94-7 (endothelial-derived relaxing factors)
     123626-67-5 (endothelin-1)
     142243-02-5 (mitogen-activated protein kinase)
     10102-43-9 (nitric oxide)
     35121-78-9 (prostacyclin)
     80449-02-1 (tyrosine kinases)
     161253-64-1 (BO-238)
L52 ANSWER 47 OF 50 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
     STN
ACCESSION NUMBER: 2000:109768 BIOSIS Full-text
DOCUMENT NUMBER:
                   PREV200000109768
TITLE:
                    Contractile and arrhythmic effects of endothelin receptor
                    agonists in human heart in vitro: Blockade with SB 209670.
AUTHOR(S):
                    Burrell, Kylie M.; Molenaar, Peter [Reprint author];
                    Dawson, Peter J.; Kaumann, Alberto J.
CORPORATE SOURCE:
                    Cardiovascular Research Unit, Department of Medicine,
                    University of Queensland, Prince Charles Hospital,
                    Chermside, QLD, 4032, Australia
SOURCE:
                    Journal of Pharmacology and Experimental Therapeutics, (
                    Jan., 2000) Vol. 292, No. 1, pp. 449-459. print.
                    CODEN: JPETAB. ISSN: 0022-3565.
DOCUMENT TYPE:
                    Article
LANGUAGE:
                    English
ENTRY DATE:
                    Entered STN: 22 Mar 2000
                    Last Updated on STN: 3 Jan 2002
     Entered STN: 22 Mar 2000
     Last Updated on STN: 3 Jan 2002
AB
     It is known that binding sites with endothelinA (ET)A and ETB receptor
     characteristics coexist in human heart but little is known about the receptors
     that mediate cardiostimulant effects of ET receptor agonists or their
     consequences. Functional studies were performed on isolated human cardiac
     tissues. The maximal positive inotropic effects of ET-1 were right atrium >
     left atrium = right ventricle. The rank order of potencies of agonists in
     right atrium was sarafotoxin S6c > ET-1 = ET-2 gtoreg ET-3. The ETA receptor-
     selective compounds BO123 (10 muM) and A-127722 (1 muM) only slightly blocked
     (<0.5 log-unit shift) the effects of lower concentrations of ET-1, and the ETB
     receptor antagonist Ro46-8443 (10 muM) did not cause blockade. SB 209670
     caused concentration-dependent rightward shifts of ET-1 and sarafotoxin S6c
     concentration-effect curves with Schild slopes not different from one and
     affinities (-logM KB) of 7.0 and 7.9, respectively. ET-1 caused arrhythmic
     contractions in right atrial trabeculae that were prevented by 10 muM SB
     209670 but not 10 muM BO123 or 1 muM A-127722, precluding ETA receptors. ET-1
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caused a higher incidence of arrhythmic contractions in tissues taken from patients treated with beta-blockers before surgery than in tissues from non-beta blocker-treated patients. Sarafotoxin S6c produced arrhythmias that were

10/595.734 prevented by SB 209670. The positive inotropic effects of ET-1 in human right atrial myocardium are mediated mostly by a non-ETA, non-ETB receptor. Ventricular inotropic ET receptors differ from atrial inotropic ET receptors. ET-1 induced arrhythmic contractions in human atria do not appear to be mediated by an ETA receptor. Pharmacology - General 22002 Biochemistry studies - General 10060 Pathology - Therapy 12512 Metabolism - General metabolism and metabolic pathways Cardiovascular system - General and methods Major Concepts Biochemistry and Molecular Biophysics; Pharmacology; Cardiovascular System (Transport and Circulation) Parts, Structures, & Systems of Organisms heart: circulatory system Chemicals & Biochemicals A-127722: endothelin-A receptor; BQ123: endothelin-A receptor-selective; Ro46-8443: endothelin-B receptor antagonist; SB 209670; endothelin-1; endothelin-A receptor; endothelin-B receptor; sarafotoxin S6c ORGN Classifier Hominidae 86215 Super Taxa Primates; Mammalia; Vertebrata; Chordata; Animalia Organism Name human Taxa Notes Animals, Chordates, Humans, Mammals, Primates, Vertebrates RN 136553-81-6 (BQ123) 175556-12-4 (Ro46-8443) 157659-79-5 (SB 209670) 123626-67-5 (endothelin-1) 121695-87-2 (sarafotoxin S6c) 173864-34-1 (A-127722) L52 ANSWER 48 OF 50 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN 1996:160728 BIOSIS Full-text ACCESSION NUMBER: DOCUMENT NUMBER: PREV199698732863 TITLE: Reversible labeling of a chemosensitizer binding domain of p-glycoprotein with a novel 1,4-dihydropyridine drug transport inhibitor. AUTHOR(S): Boer, R.; Dichtl, M.; Borchers, C.; Ulrich, W. R.; Marecek, J. F.; Prestwich, G. D.; Glossmann, H.; Striessnig, J. [Reprint author] Fak. Chem., Univ. Konstanz, Konstanz, Germany CORPORATE SOURCE: SOURCE: Biochemistry, (1996) Vol. 35, No. 5, pp. 1387-1396. CODEN: BICHAW. ISSN: 0006-2960. DOCUMENT TYPE: Article LANGUAGE: English ENTRY DATE: Entered STN: 11 Apr 1996 Last Updated on STN: 10 Jun 1997 Entered STN: 11 Apr 1996 Last Updated on STN: 10 Jun 1997 AR A photoreactive dihydropyridine (DHP), BZDC-DHP (2,6-dimethyl-4-(2-(trifluoromethyl)phenyl)-1,4-dihydropyridine-3,5- dicarboxylic acid (-(3-(4benzoylphenyl)propionylamino)ethyl) ester ethyl ester), and its tritiated

derivative were synthesized as novel probes for human p-glycoprotein (p-gp). (3H)BZDC-DHP specifically photolabeled p-qp in membranes of multidrug-

resistant CCRF-ADR5000 cells. In reversible labeling experiments a saturable, vinblastine-sensitive and high-affinity (K-d = 16.3 nM, B-max = 58 pmol/mg of protein, k+1 = 0.031 nM-1 min-1, k-1 = 0.172 min-1) binding component was present in CCRF-ADR5000 membranes but absent in the sensitive parent cell line. Binding was inhibited by cytotoxics and known chemosensitizers with a p-qp characteristic pharmacological profile. For eight chemosensitizers tested, the potency for binding inhibition correlated (r qt 0.94) with the potency for drug transport inhibition (measured using rhodamine 123 accumulation). The DHP niguldipine and a structurally related pyrimidine stereoselectively stimulated reversible (-)-(3H)BZDC-DHP binding, suggesting that more than one DHP molecule can bind to p-qp at the same time. Our data demonstrate that DHPs label multiple chemosensitizer domains on p-qp, distinct from the vinblastine interaction site. (-)-(3H)BZDC-DHP represents a valuable tool to characterize the molecular organization of chemosensitizer binding domains on p-qp by both reversible binding and photoinduced covalent modification. It provides a novel simple screening assay for p-gp active drugs.

ctrugs.

C Cytology - Human 02508

Biochemistry methods - General 10050

Biochemistry studies - General 10060

Biochemistry studies - Proteins, peptides and amino acids 10064

Biochemistry studies - Carbohydrates 10068

Biophysics - Molecular properties and macromolecules 10506

Biophysics - Membrane phenomena 10508

Metabolism - General metabolism and metabolic pathways 13002

Pharmacology - General 22002

Neoplasms - Therapeutic agents and therapy 24008

IT Major Concepts

Biochemistry and Molecular Biophysics; Cell Biology; Membranes (Cell Biology); Metabolism; Oncology (Human Medicine, Medical Sciences); Pharmacology

IT Chemicals & Biochemicals

1,4-DIHYDROPYRIDINE; PRENYLAMINE; B9309-012; NIGULDIPINE; DEXNIGULDIPINE; VERAPAMIL; QUINIDINE; CICLOSPORIN; ETOPOSIDE; COLCHICINE; ACTINOMYCIN D; VINCRISTINE; VINBLASTINE; B9109-012; NICARDIPINE

IT Miscellaneous Descriptors

(DEXTRO) -2,6-DIMETHYL-4-(2-(TRIFLUOROMETHYL)-PHENYL)-1,4-DIHYDROPYRIDINE-3, 5-DICARBOXYLIC ACID (2-(3-(4-BENZOYLPHENYL) PROPIONYLAMINO) ETHYL) ESTER ETHYL ESTER; (LEVO) -2,6-DIMETHYL-4-(2-(TRIFLUOROMETHYL)-PHENYL)-1,4-DIHYDROPYRIDINE-3,5-DICARBOXYLIC ACID (2-(3-(4-BENZOYLPHENYL)PROPIONYLAMINO)ETHYL) ESTER ETHYL ESTER: (RACEMIC)-AZIDOPINE: (RACEMIC)-SADOPINE: ACTINOMYCIN D: ANALYTICAL METHOD: ANTINEOPLASTIC AGENT RESISTANCE: B9109-012: B9309-012; CICLOSPORIN A: COLCHICINE; DEXNIGULDIPINE; ETOPOSIDE; HUMAN CCRF-ADR5000 MULTIDRUG-RESISTANT CELL; NICARDIPINE; NIGULDIPINE; P-GLYCOPROTEIN ACTIVE PHARMACEUTICAL AGENT: P-GLYCOPROTEIN PROBE: PHARMACEUTICAL AGENT TRANSPORT; PRENYLAMINE; OUINIDINE; STRUCTURE-FUNCTION RELATIONSHIP; SYNTHETIC METHOD; TRITIATED (RACEMIC) -2, 6-DIMETHYL-4-(2-(TRIFLUOROMETHYL)-PHENYL)-1, 4-DIHYDROPYRIDINE-3 ,5-DICARBOXYLIC ACID (2-(3-(4-BENZOYLPHENYL)PROPIONYLAMINO)ETHYL) ESTER ETHYL ESTER; VERAPAMIL; VINBLASTINE; VINCRISTINE

ORGN Classifier

Hominidae 86215 Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia Organism Name

CCRF-CEM: cell line

Taxa Notes

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Animals, Chordates, Humans, Mammals, Primates, Vertebrates
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    3337-17-5 (1,4-DIHYDROPYRIDINE)
     390-64-70 (PRENYLAMINE)
     13822-06-5Q (PRENYLAMINE)
       173220-66-1 (B9309-012)
     113165-32-5 (NIGULDIPINE)
     120054-86-6 (DEXNIGULDIPINE)
     52-53-9 (VERAPAMIL)
     56-54-2 (OUINIDINE)
     59865-13-3 (CICLOSPORIN)
    33419-42-0 (ETOPOSIDE)
    64-86-8 (COLCHICINE)
     50-76-0 (ACTINOMYCIN D)
     57-22-7 (VINCRISTINE)
    865-21-4 (VINBLASTINE)
     173268-91-2 (B9109-012)
     55985-32-5 (NICARDIPINE)
L52 ANSWER 49 OF 50 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
ACCESSION NUMBER: 1996:192585 BIOSIS Full-text
DOCUMENT NUMBER:
                   PREV199698748714
TITLE:
                   The role of ET-B receptors in normotensive and hypertensive
                   rats as revealed by the non-peptide selective ET-B receptor
                   antagonist Ro 46-8443.
                   Clozel, Martine [Reprint author]; Breu, Volker
AUTHOR(S):
CORPORATE SOURCE: Pharma Div., Preclin. Res., c/o F. Hoffmann-La Roche Ltd.,
                   Grenzacherstrasse 124, CH-4070 Basel, Switzerland
SOURCE:
                   FEBS Letters, (1996) Vol. 383, No. 1-2, pp.
                   42-45.
                   CODEN: FEBLAL. ISSN: 0014-5793.
DOCUMENT TYPE:
                   Article
LANGUAGE:
                   English
ENTRY DATE:
                   Entered STN: 2 May 1996
                   Last Updated on STN: 10 Jun 1996
     Entered STN: 2 May 1996
     Last Updated on STN: 10 Jun 1996
AB
    We used Ro 46-8443, non-peptidic antagonist selective of endothelin ET-B
     receptors, to study the role of ET-B receptors in rat hypertension models. In
     normotensive rats, Ro 46-8443 decreased blood pressure, but in SHR and DOCA
     rats, it induced a pressor effect, due to blockade of ET-B-mediated release of
     nitric oxide since L-NAME prevented it. In rats rendered hypertensive by
     chronic L-NAME, Ro 46-8443 did not induce a pressor but depressor effect.
     Thus, in DOCA rats and SHR, Ro 46-8443 reveals a predominant influence of
     endothelial 'vasorelaxant' ET-B receptors, while in normotensive rats the
     prevailing role of ET-B receptors seems to be in mediating a vasoconstrictor
     tone.
     Biochemistry studies - General 10060
     Biochemistry studies - Proteins, peptides and amino acids 10064
     Biophysics - Membrane phenomena 10508
     Cardiovascular system - Physiology and biochemistry 14504
     Cardiovascular system - Blood vessel pathology 14508
     Endocrine - Neuroendocrinology 17020
     Pharmacology - Cardiovascular system
    Major Concepts
        Cardiovascular System (Transport and Circulation); Endocrine System
       (Chemical Coordination and Homeostasis); Membranes (Cell Biology);
       Pharmacology
    Chemicals & Biochemicals
       RO 46-8443
```

Miscellaneous Descriptors ANTIHYPERTENSIVE-DRUG; CARDIOVASCULAR-DRUG; ENDOTHELIN; RO 46-8443;

VASOCONSTRICTOR: VASORELAXATION

ORGN Classifier

Muridae 86375

Super Taxa

Rodentia: Mammalia: Vertebrata: Chordata: Animalia

Organism Name

Muridae

Taxa Notes

Animals, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman Mammals, Rodents, Vertebrates

RN 175556-12-4 (RO 46-8443)

L52 ANSWER 50 OF 50 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on

ACCESSION NUMBER: 1996:192584 BIOSIS Full-text

DOCUMENT NUMBER: PREV199698748713

TITLE: In vitro characterisation of Ro 46-8443, the first

non-peptide antagonist selective for the endothelin ET-B

receptor.

Breu, Volker [Reprint author]; Clozel, Martine; Burri, AUTHOR(S): Kaspar; Hirth, Georges; Neidhart, Werner; Ramuz, Henri CORPORATE SOURCE: Pharma Div., Preclin. Res., c/o F.Hoffmann-La Roche Ltd.,

Grenzacherstrasse 124, CH-4070 Basel, Switzerland

FEBS Letters, (1996) Vol. 383, No. 1-2, pp. SOURCE:

37-41. CODEN: FEBLAL. ISSN: 0014-5793.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 2 May 1996

Last Updated on STN: 10 Jun 1996

Entered STN: 2 May 1996

Last Updated on STN: 10 Jun 1996

AB We describe here Ro 46-8443, the first non-peptide endothelin ET-B receptor selective antagonist. It displays up to 2000-fold selectivity for ET-B receptors both in terms of binding inhibitory potency and functional inhibition. The observed parallel rightward shift of concentration-response curves with different antagonist concentrations is consistent with a competitive binding mode. Since Ro 46-8443 selectively inhibits ET-B receptor mediated responses, it is a valuable tool for clarifying the role of ET-B receptors in pathology.

CC Biochemistry studies - General 10060

Biochemistry studies - Proteins, peptides and amino acids 10064

Biophysics - Membrane phenomena 10508

Cardiovascular system - Blood vessel pathology 14508

Endocrine - Neuroendocrinology 17020

Pharmacology - Cardiovascular system 22010

In vitro cellular and subcellular studies 32600

Major Concepts

Cardiovascular System (Transport and Circulation); Endocrine System (Chemical Coordination and Homeostasis); Membranes (Cell Biology); Pharmacology

Chemicals & Biochemicals

RO 46-8443

ΤТ Miscellaneous Descriptors

CARDIOVASCULAR-DRUG; RO 46-8443; VASOCONSTRICTION

RN 175556-12-4 (RO 46-8443)

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L7
L9
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L12
               STR
L14
          1556 SEA FILE=REGISTRY SUB=L9 SSS FUL L12
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L15
L16
               QUE SPE=ON ABB=ON PLU=ON MARTIN, D?/AU, AUTH
               OUE SPE=ON ABB=ON PLU=ON MOHAN, R?/AU.AUTH
L18
               OUE SPE=ON ABB=ON PLU=ON ORDENTLICH, P?/AU, AUTH
            99 SEA FILE-HCAPLUS SPE-ON ABB-ON PLU-ON L14
L21
1.22
          1883 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9
L23
           515 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L21 OR L22) (L)(THU
               OR PKT OR PAC OR DMA OR BAC)/RL
L24
           564 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L21 OR L22) AND
               PHARM?/SC.SX
L25
           178 SEA FILE-HCAPLUS SPE=ON ABB=ON PLU=ON (L21 OR L22) (L)
               (TREAT? OR THERAP? OR REMED? OR MEDIC? OR ?PHARM? OR BIOPHARM?)
           656 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L23 OR L24 OR L25)
L26
L27
            55 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L26 AND L21
L29
             1 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L27 AND (L15 OR L16
               OR L17 OR L18)
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L7
               STR
1.12
               STR
L15
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L16
               OUE SPE=ON ABB=ON PLU=ON MARTIN, D?/AU, AUTH
L17
               OUE SPE=ON ABB=ON PLU=ON MOHAN, R?/AU, AUTH
L18
               OUE SPE=ON ABB=ON PLU=ON ORDENTLICH, P?/AU, AUTH
L34
          1954 SEA FILE=WPIX SSS FUL L7
L38
          116 SEA FILE=WPIX SUB=L34 SSS FUL L12
1.39
           18 SEA FILE-WPIX SPE=ON ABB=ON PLU=ON L38/DCR
             1 SEA FILE-WPIX SPE-ON ABB-ON PLU-ON L39 AND (L15 OR L16 OR
L40
               L17 OR L18)
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     (FILE 'MEDLINE, BIOSIS, EMBASE, BIOTECHNO, CABA, AGRICOLA, DRUGU, VETU'
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L46
             0 S L45 AND L15-L18
=> d que nos 146
L7
1.9
         27538 SEA FILE=REGISTRY SSS FUL L7
L15
               QUE SPE-ON ABB-ON PLU-ON MARTIN, R?/AU, AUTH
L16
               OUE SPE=ON ABB=ON PLU=ON MARTIN, D?/AU.AUTH
               OUE SPE=ON ABB=ON PLU=ON MOHAN, R?/AU, AUTH
L18
               QUE SPE=ON ABB=ON PLU=ON ORDENTLICH, P?/AU, AUTH
L44
             2 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L9 AND (MEDLINE OR
               BIOSIS OR EMBASE OR BIOTECHNO OR CABA OR AGRICOLA OR DRUGU OR
               VETU OR CROPU)/LC
             6 SEA L44
1.45
             0 SEA L45 AND (L15 OR L16 OR L17 OR L18)
L46
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=> d his 151

(FILE 'MEDLINE, BIOSIS, EMBASE, CABA, CEABA-VTB, PASCAL, JAPIO, LIFESCI, BIOENG, BIOTECHNO, BIOTECHDS, DRUGU, DRUGB, VETU, VETB, AGRICOLA, CROPU, CROPB, FSTA, FROSTI, SCISEARCH, CONFSCI, DISSABS, RDISCLOSURE' ENTERED AT 09:33:42 ON 24 NOV 2009) L51 0 S L50 AND L19 => d que nos 151 L15 OUE SPE=ON ABB=ON PLU=ON MARTIN, R?/AU, AUTH L16 OUE SPE=ON ABB=ON PLU=ON MARTIN, D?/AU, AUTH OUE SPE=ON ABB=ON PLU=ON MOHAN, R?/AU, AUTH L18 OUE SPE=ON ABB=ON PLU=ON ORDENTLICH, P?/AU.AUTH L19 QUE SPE=ON ABB=ON PLU=ON EXELIXIS/CS, SO, PA L49 159573 SEA ?PYRIMIDIN?/IT,TI,CC,CT,ST,STP L50 143 SEA L49 AND (L15 OR L16 OR L17 OR L18) L51 0 SEA L50 AND L19 => dup rem 129 140 146 151 L46 HAS NO ANSWERS L51 HAS NO ANSWERS DUPLICATE IS NOT AVAILABLE IN 'RDISCLOSURE'. ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIOUE FILE 'HCAPLUS' ENTERED AT 09:47:09 ON 24 NOV 2009 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'WPIX' ENTERED AT 09:47:09 ON 24 NOV 2009 COPYRIGHT (C) 2009 THOMSON REUTERS PROCESSING COMPLETED FOR L29 PROCESSING COMPLETED FOR L40 PROCESSING COMPLETED FOR L46 PROCESSING COMPLETED FOR L51 L53 1 DUP REM L29 L40 L46 L51 (1 DUPLICATE REMOVED) ANSWER '1' FROM FILE HCAPLUS => file stnguide FILE 'STNGUIDE' ENTERED AT 09:47:21 ON 24 NOV 2009 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Nov 20, 2009 (20091120/UP).

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L53 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2005:451367 HCAPLUS Full-text DOCUMENT NUMBER: 142:476293 TITLE: Substituted pyrimidine compositions and methods using them for the treatment of NGFI-B-related diseases Martin, Richard; Mohan, Raju; INVENTOR(S): Ordentlich, Peter X-Ceptor Therapeutics, Inc., USA PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 117 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent. LANGUAGE: English FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE A2 20050526 WO 2004-US37642 A3 20050721 WO 2005047268 WO 2005047268 WO 2005047268 20041109 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO,

A1 20071220 WO 2004-US37642 W 20041109 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 142:476293

ED Entered STN: 27 May 2005

US 20070293464

PRIORITY APPLN. INFO.:

NE, SN, TD, TG

AB Compns. and methods using substituted pyrimidines are provided. The substituted pyrimidines may be used to treat diseases modulated by NGFI-B family activity.

SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,

US 2007-595734

US 2003-519030P

20070522

P 20031110

ICM C07D239-00 CC

1-12 (Pharmacology) Section cross-reference(s): 63

50-78-2, Aspirin 50-81-7, Vitamin C, biological studies 53-03-2, Prednisone 53-06-5, Cortisone 58-56-0, Pyridoxine hydrochloride 59-67-6, Nicotinic acid, biological studies 59-92-7, biological studies 65-23-6, Pyridoxine 68-19-9, Vitamin B12 83-46-5, β-Sitosterol 98-92-0, Niacinamide 103-90-2, Acetaminophen 552-94-3, Salicylsalicylic acid 637-07-0, Clofibrate 943-45-3D, Fibric acid, derivs. 1247-42-3, Methylprednisone 1406-18-4, Vitamin E 7235-40-7, β-Carotene 8059-24-3, Vitamin B6 9002-64-6, Parathyroid hormone 9004-54-0D, Dextran, crosslinked, dialkylaminoalkyl derivs., biological studies 11041-12-6, Cholestyramine 14417-88-0, Melinamide 15687-27-1, Ibuprofen 23187-87-3, Choline magnesiumsalicylate

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RL: PAC (Pharmacological activity); THU (Therapeutic
use); BIOL (Biological study); USES (Uses)
    (pyrimidine derivs. for treatment of NGFI-B-related diseases)
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478031-64-0 487015-37-2 499975-26-7
RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

- (pyrimidine derivs. for treatment of NGFI-B-related diseases)
- RN 65789-90-4 HCAPLUS
- CN Benzoic acid, 4-[(6-methyl-2-phenyl-4-pyrimidinyl)amino]-, ethyl ester (CA INDEX NAME)

- RN 299406-55-6 HCAPLUS
- CN Benzoic acid, 4-[(2,6-diphenyl-4-pyrimidinyl)amino]-, ethyl ester (CA INDEX NAME)

- RN 300359-06-2 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(4-methylphenyl)-2-phenyl- (CA INDEX NAME)

- RN 300359-07-3 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(2-methylphenyl)-2-phenyl- (CA INDEX NAME)

- RN 300359-08-4 HCAPLUS
- CN 4-Pyrimidinamine, N-(4-methoxyphenyl)-6-methyl-2-phenyl- (CA INDEX NAME)

- RN 300719-05-5 HCAPLUS
- CN Benzoic acid, 4-[[2-(2-hydroxyphenyl)-6-methyl-4-pyrimidinyl]oxy]- (CA INDEX NAME)

- RN 300837-31-4 HCAPLUS
- CN Benzoic acid, 4-[[6-methyl-2-phenyl-5-(2-propen-1-yl)-4-pyrimidinyl]amino](CA INDEX NAME)

- RN 303147-11-7 HCAPLUS
- CN Pyrimidine, 4-[[(4-chlorophenyl)thio]methyl]-2-phenyl-6-(phenylthio)- (CA INDEX NAME)

- RN 303147-12-8 HCAPLUS
- CN Pyrimidine, 4-(4-chlorophenoxy)-6-[[(4-chlorophenyl)thio]methyl]-2-phenyl-(CA INDEX NAME)

RN 303147-40-2 HCAPLUS

CN Pyrimidine, 2-phenyl-4-[(phenylsulfonyl)methyl]-6-(phenylthio)- (CA INDEX NAME)

RN 303147-41-3 HCAPLUS

CN Pyrimidine, 4-phenoxy-2-phenyl-6-[(phenylsulfonyl)methyl]- (CA INDEX NAME)

RN 303147-45-7 HCAPLUS

CN Pyrimidine, 4-[(4-chlorophenyl)thio]-2-phenyl-6-[(phenylsulfonyl)methyl]-(CA INDEX NAME)

RN 306980-56-3 HCAPLUS

CN Pyrimidine, 4-[[(4-chloropheny1)sulfiny1]methy1]-6-phenoxy-2-pheny1- (CA INDEX NAME)

- RN 306980-58-5 HCAPLUS
- CN Pyrimidine, 4-[[(4-chlorophenyl)sulfinyl]methyl]-6-[(4-chlorophenyl)thio]-2-phenyl- (CA INDEX NAME)

- RN 307332-77-0 HCAPLUS
- CN Benzonitrile, 4-[(2,6-diphenyl-4-pyrimidinyl)oxy]- (CA INDEX NAME)

- RN 307332-78-1 HCAPLUS
- CN Pyrimidine, 4-(4-butylphenoxy)-2,6-diphenyl- (CA INDEX NAME)

- RN 312626-15-6 HCAPLUS
- CN Benzoic acid, 4-[(6-methyl-2-phenyl-4-pyrimidinyl)amino]- (CA INDEX NAME)

- RN 315194-30-0 HCAPLUS
- CN Pyrimidine, 4-([1,1'-biphenyl]-4-yloxy)-6-methyl-2-phenyl- (CA INDEX NAME)

- RN 320418-43-7 HCAPLUS
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- RN 320418-48-2 HCAPLUS
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- RN 320418-49-3 HCAPLUS
- CN 5-Pyrimidinecarbonitrile, 4-(4-chlorophenyl)-6-[(4-chlorophenyl)thio]-2phenyl- (CA INDEX NAME)

- RN 320421-36-1 HCAPLUS
- CN Pyrimidine, 2-phenyl-4-[(phenylsulfinyl)methyl]-6-(phenylthio)- (CA INDEX NAME)

RN 329077-80-7 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-bromophenyl)-N-(2,5-dimethylphenyl)-6-phenyl- (CA INDEX NAME)

RN 330221-00-6 HCAPLUS

CN Phenol, 2-[4-([1,1'-biphenyl]-4-yloxy)-6-methyl-2-pyrimidinyl]- (CA INDEX NAME)

RN 330819-79-9 HCAPLUS

CN 4-Pyrimidinamine, 6-methyl-N-(4-nitrophenyl)-2-phenyl-5-(2-propen-1-yl)-(CA INDEX NAME)

330981-36-7 HCAPLUS RN

CN 4-Pyrimidinamine, 2-(4-bromophenyl)-N,6-diphenyl- (CA INDEX NAME)

RN 330981-37-8 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-bromophenyl)-N-(4-methylphenyl)-6-phenyl- (CA INDEX NAME)

RN 330981-38-9 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-bromophenyl)-N-(4-methoxyphenyl)-6-phenyl- (CA INDEX NAME)

RN 330981-39-0 HCAPLUS

CN 4-Pyrimidinamine, 2-(4-bromophenyl)-N-(3-fluorophenyl)-6-phenyl- (CA INDEX NAME)

RN 330981-41-4 HCAPLUS

CN Pyrimidine, 2-(4-bromophenyl)-4-phenoxy-6-phenyl- (CA INDEX NAME)

RN 330981-42-5 HCAPLUS

CN Pyrimidine, 4-([1,1'-biphenyl]-4-yloxy)-2-(4-bromophenyl)-6-phenyl- (CA INDEX NAME)

RN 330981-45-8 HCAPLUS

CN Benzonitrile, 4-[[2-(4-bromophenyl)-6-phenyl-4-pyrimidinyl]oxy]- (CA INDEX NAME)

RN 330981-47-0 HCAPLUS

CN 4-Pyrimidinamine, N-(3-fluorophenyl)-2,6-diphenyl- (CA INDEX NAME)

RN 330981-49-2 HCAPLUS

CN Pyrimidine, 4-phenoxy-2,6-diphenyl- (CA INDEX NAME)

RN 330981-52-7 HCAPLUS

CN Pyrimidine, 4-(4-nitrophenoxy)-2,6-diphenyl- (CA INDEX NAME)

RN 330981-53-8 HCAPLUS

CN Benzoic acid, 4-[(2,6-diphenyl-4-pyrimidinyl)oxy]-, methyl ester (CA INDEX NAME)

RN 330981-54-9 HCAPLUS

CN Benzaldehyde, 4-[(2,6-diphenyl-4-pyrimidinyl)oxy]- (CA INDEX NAME)

RN 330981-55-0 HCAPLUS

CN Pyrimidine, 2,4-diphenyl-6-(4-propylphenoxy)- (CA INDEX NAME)

- RN 330981-59-4 HCAPLUS
- CN Pyrimidine, 2-(4-bromophenyl)-4-methyl-6-phenoxy- (CA INDEX NAME)

- RN 330981-60-7 HCAPLUS
- CN Ethanone, 1-[4-[[2-(4-bromopheny1)-6-methy1-4-pyrimidiny1]oxy]pheny1](CA INDEX NAME)

- RN 330981-61-8 HCAPLUS
- CN Pyrimidine, 2-(4-bromophenyl)-4-methyl-6-(4-nitrophenoxy)- (CA INDEX NAME)

- RN 330981-63-0 HCAPLUS
- CN Benzoic acid, 4-[[2-(4-bromophenyl)-6-methyl-4-pyrimidinyl]oxy]-, methyl ester (CA INDEX NAME)

- RN 330981-64-1 HCAPLUS
- CN Pyrimidine, 4-([1,1'-biphenyl]-4-yloxy)-2-(4-bromophenyl)-6-methyl- (CA INDEX NAME)

- RN 330981-65-2 HCAPLUS
- NAME) CA INCLUDES NAME) CALL TO SEE THE STATE OF THE STAT

- RN 330981-70-9 HCAPLUS
- CN 4-Pyrimidinamine, 2-(4-bromophenyl)-6-methyl-N-phenyl- (CA INDEX NAME)

- RN 330993-01-6 HCAPLUS
- CN 4-Pyrimidinamine, N-(4-methylphenyl)-2,6-diphenyl- (CA INDEX NAME)

- RN 330993-02-7 HCAPLUS
- CN 4-Pyrimidinamine, N-(2-methylphenyl)-2,6-diphenyl- (CA INDEX NAME)

- RN 331648-43-2 HCAPLUS
- CN Phenol, 2-[4-[(4-bromophenyl)amino]-6-methyl-2-pyrimidinyl]- (CA INDEX NAME)

- RN 331648-44-3 HCAPLUS
- CN Phenol, 2-[4-[(4-methoxyphenyl)amino]-6-methyl-2-pyrimidinyl]- (CA INDEX NAME)

- RN 332374-83-1 HCAPLUS
- CN 4-Pyrimidinamine, 6-methyl-N-(4-nitrophenyl)-2-phenyl- (CA INDEX NAME)

- RN 333415-58-0 HCAPLUS
- CN Benzoic acid, 3-[(6-methyl-2-phenyl-4-pyrimidinyl)amino]- (CA INDEX NAME)

- RN 338395-36-1 HCAPLUS
- CN 5-Pyrimidinecarbonitrile, 4-(4-methoxyphenyl)-2-phenyl-6-(phenylthio)-(CA INDEX NAME)

- RN 338960-71-7 HCAPLUS
- CN Pyrimidine, 4-[(4-chlorophenyl)thio]-6-(methoxymethyl)-2-phenyl- (CA INDEX NAME)

- RN 338960-72-8 HCAPLUS
- CN Pyrimidine, 4-[[[(4-chlorophenyl)methyl]thio]methyl]-6-[(4-methylphenyl)thio]-2-phenyl- (CA INDEX NAME)

- RN 338960-73-9 HCAPLUS
- CN Pyrimidine, 4-[[[(4-chlorophenyl)methyl]thio]methyl]-6-[(2,6-dichlorophenyl)thio]-2-phenyl- (CA INDEX NAME)

$$C1 \longrightarrow CH_2 - S - CH_2 \longrightarrow C1 \longrightarrow C1$$

- RN 338960-74-0 HCAPLUS
- CN Pyrimidine, 4-[[[(4-chlorophenyl)methyl]thio]methyl]-6-[(3-chlorophenyl)thio]-2-phenyl- (CA INDEX NAME)

- RN 338960-75-1 HCAPLUS
- CN Pyrimidine, 4-[[[(4-chlorophenyl)methyl]thio]methyl]-6-[(2,4-dichlorophenyl)thio]-2-phenyl- (CA INDEX NAME)

- RN 338960-76-2 HCAPLUS
- CN Pyrimidine, 4-[[[(4-chlorophenyl)methyl]thio]methyl]-6-[(4-methoxyphenyl)thio]-2-phenyl- (CA INDEX NAME)

- RN 338960-93-3 HCAPLUS
- CN Pyrimidine, 4-[[[(4-chlorophenyl)methyl]thio]methyl]-6-[(4-chlorophenyl)thio]-2-phenyl- (CA INDEX NAME)

- RN 338960-99-9 HCAPLUS
- CN Pyrimidine, 4-[[[(4-chlorophenyl)methyl]thio]methyl]-6-[(4fluorophenyl)thio]-2-phenyl- (CA INDEX NAME)

$$\texttt{c1} \qquad \qquad \texttt{Ph} \\ \texttt{CH}_2-\texttt{S}-\texttt{CH}_2 \qquad \qquad \texttt{S} \qquad \texttt{S} \qquad \texttt{F}$$

- RN 338967-63-8 HCAPLUS
- CN Pyrimidine, 4-[(4-bromophenyl)thio]-6-[(methylsulfonyl)methyl]-2-phenyl-(CA INDEX NAME)

$$\mathsf{Me} = \bigcup_{h=0}^{\mathsf{ph}} \mathsf{CH}_2^{\mathsf{ph}} \mathsf{S} = \bigcup_{h=0}^{\mathsf{ph}} \mathsf{Br}$$

- RN 339279-05-9 HCAPLUS
- CN Pyrimidine, 4-[(2,3-dichlorophenyl)thio]-6-(methoxymethyl)-2-phenyl- (CA INDEX NAME)

- RN 339279-06-0 HCAPLUS
- CN Pyrimidine, 4-[(2,6-dichlorophenyl)thio]-6-(methoxymethyl)-2-phenyl- (CA INDEX NAME)

RN 339279-07-1 HCAPLUS

CN Pyrimidine, 4-[(2,4-dichlorophenyl)thio]-6-(methoxymethyl)-2-phenyl- (CA INDEX NAME)

RN 339279-08-2 HCAPLUS

CN Pyrimidine, 4-[(4-bromophenyl)thio]-6-(methoxymethyl)-2-phenyl- (CA INDEX NAME)

RN 339279-21-9 HCAPLUS

CN Pyrimidine, 4-(methoxymethyl)-6-[(4-methoxyphenyl)thio]-2-phenyl- (CA INDEX NAME)

RN 339279-27-5 HCAPLUS

CN Pyrimidine, 4-[(4-bromophenyl)thio]-6-[[[(4-chlorophenyl)methyl]thio]methyl]-2-phenyl- (CA INDEX NAME)

- RN 371199-20-1 HCAPLUS
- CN Benzoic acid, 4-[[2-(2-hydroxyphenyl)-6-methyl-4-pyrimidinyl]amino]-, ethyl ester (CA INDEX NAME)

- RN 371199-57-4 HCAPLUS
- CN Phenol, 2-[4-methyl-6-[(4-nitrophenyl)amino]-2-pyrimidinyl]- (CA INDEX NAME)

- RN 380472-88-8 HCAPLUS
- CN Phenol, 2-[4-[(3,4-dichlorophenyl)amino]-6-methyl-2-pyrimidinyl]- (CA INDEX NAME)

- RN 380571-66-4 HCAPLUS
- CN Benzoic acid, 4-[[2-(2-hydroxyphenyl)-6-methyl-4-pyrimidinyl]amino]-,
   methyl ester (CA INDEX NAME)

RN 381683-04-1 HCAPLUS

CN Phenol, 2-[4-[(3,5-dichlorophenyl)amino]-6-methyl-2-pyrimidinyl]- (CA INDEX NAME)

RN 415699-44-4 HCAPLUS

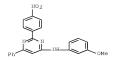
CN 4-Pyrimidinamine, N-(4-butoxyphenyl)-2,6-diphenyl- (CA INDEX NAME)

RN 419548-22-4 HCAPLUS

CN Phenol, 2-[4-methyl-6-[(4-methylphenyl)amino]-2-pyrimidinyl]- (CA INDEX NAME)

RN 420104-18-3 HCAPLUS

CN 4-Pyrimidinamine, N-(3-methoxypheny1)-2-(4-nitropheny1)-6-pheny1- (CA INDEX NAME)



RN 477710-02-4 HCAPLUS

CN Pyrimidine, 4-phenoxy-2-phenyl-6-[(phenylsulfinyl)methyl]- (CA INDEX NAME)

RN 477886-15-0 HCAPLUS

CN Pyrimidine, 4-[(methylthio)methyl]-2-phenyl-6-(phenylthio)- (CA INDEX NAME)

RN 477886-16-1 HCAPLUS

CN Pyrimidine, 4-[(methylthio)methyl]-2-phenyl-6-[[3-(trifluoromethyl)phenyl]thio]- (CA INDEX NAME)

RN 477886-19-4 HCAPLUS

CN Pyrimidine, 4-[(methylthio)methyl]-6-phenoxy-2-phenyl- (CA INDEX NAME)

- RN 478031-54-8 HCAPLUS
- CN Pyrimidine, 4-[(4-chlorophenyl)thio]-6-[(methylsulfonyl)methyl]-2-phenyl-(CA INDEX NAME)

- RN 478031-59-3 HCAPLUS
- CN Benzoic acid, 2-[[6-[(methylsulfonyl)methyl]-2-phenyl-4-pyrimidinyl]thio], methyl ester (CA INDEX NAME)

- RN 478031-64-0 HCAPLUS
- CN 4-Pyrimidinamine, N-methyl-6-[(methylthio)methyl]-N,2-diphenyl- (CA INDEX NAME)

- RN 487015-37-2 HCAPLUS
- CN Benzoic acid, 3-[[2-(2-hydroxyphenyl)-6-methyl-4-pyrimidinyl]amino]-, methyl ester (CA INDEX NAME)

RN 499975-26-7 HCAPLUS

CN 4-Pyrimidinamine, N, 2-diphenyl-6-(trifluoromethyl)- (CA INDEX NAME)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD

(4 CITINGS)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file stnguide

FILE 'STNGUIDE' ENTERED AT 09:48:12 ON 24 NOV 2009 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Nov 20, 2009 (20091120/UP).

FILE 'STNGUIDE' ENTERED AT 08:52:49 ON 24 NOV 2009

FILE 'ZCAPLUS' ENTERED AT 08:53:24 ON 24 NOV 2009 E US2007-595734/APPS

FILE 'STNGUIDE' ENTERED AT 08:53:50 ON 24 NOV 2009

FILE 'WPIX' ENTERED AT 08:54:09 ON 24 NOV 2009
L2 1 SEA SPE=ON ABB=ON PLU=ON US2007-595734/APPS
D SCAN

FILE 'REGISTRY' ENTERED AT 08:54:24 ON 24 NOV 2009

FILE 'HCAPLUS' ENTERED AT 08:54:28 ON 24 NOV 2009
L3 TRA PLU=ON L1 1- RN: 143 TERMS

FILE 'REGISTRY' ENTERED AT 08:54:28 ON 24 NOV 2009 L4 143 SEA SPE=ON ABB=ON PLU=ON L3

FILE 'LREGISTRY' ENTERED AT 08:55:03 ON 24 NOV 2009 L5 STR

FILE 'REGISTRY' ENTERED AT 08:58:49 ON 24 NOV 2009 L6 50 SEA SSS SAM L5

FILE 'LREGISTRY' ENTERED AT 09:01:02 ON 24 NOV 2009 L7 STR L5

FILE 'REGISTRY' ENTERED AT 09:01:36 ON 24 NOV 2009 L8 50 SEA SSS SAM L7

FILE 'STNGUIDE' ENTERED AT 09:02:23 ON 24 NOV 2009

D QUE STAT

FILE 'REGISTRY' ENTERED AT 09:05:23 ON 24 NOV 2009 L9 27538 SEA SSS FUL L7

9 27538 SEA SSS FUL L7 SAVE TEMP L9 JAI734PSET1/A

D SCAN

59 SEA SPE=ON ABB=ON PLU=ON L4 NOT L9
5 SEA SPE=ON ABB=ON PLU=ON L10 AND NCNC3/ES

FILE 'LREGISTRY' ENTERED AT 09:06:54 ON 24 NOV 2009 L12 STR L7

FILE 'REGISTRY' ENTERED AT 09:09:54 ON 24 NOV 2009
L13 50 SEA SUB=19 SSS SAM L12
D OUE STAT

FILE 'REGISTRY' ENTERED AT 09:13:45 ON 24 NOV 2009 L14 1556 SEA SUB-L9 SSS FUL L12 SAVE TEMP L14 JA1734RSET1/A

FILE 'STNGUIDE' ENTERED AT 09:14:32 ON 24 NOV 2009 D SAVED

		D SAVED
L15 L16 L17 L18 L19		2CAPLUS
L20	FILE	REGISTRY' ENTERED AT 09:18:19 ON 24 NOV 2009 91 SEA SPE=ON ABB=ON PLU=ON L4 NOT L14
L21 L22 L23		
L24 L*** L25	DEL	564 SEA SPE=ON ABB=ON PLU=ON (L21 OR L22) AND PHARM?/SC,SX 713 S L21-L22 AND TREAT? OR THERAP? OR REMED? OR MEDIC? OR ?PHARM? 178 SEA SPE=ON ABB=ON PLU=ON (L21 OR L22) (L) (TREAT? OR THERAP? OR REMED? OR MEDIC? OR ?PHARM? OR BIOPHARM?) 65 SEA SPE=ON ABB=ON PLU=ON (L23 OR L24 OR L25)
L26 L27		55 SEA SPE=ON ABB=ON PLU=ON (L23 OR L24 OR L25)  55 SEA SPE=ON ABB=ON PLU=ON L26 AND L21
L28	FILE	'ZCAPLUS' ENTERED AT 09:21:43 ON 24 NOV 2009 QUE SPB=ON ABB=ON PLU=ON AY<2008 OR PY<2008 OR PRY<2008 OR MY<2008 OR REVIEW/DT
L29	FILE	"HCAPLUS' ENTERED AT 09:22:17 ON 24 NOV 2009  1 SEA SPE=ON ABB=ON PLU=ON L27 AND (L15 OR L16 OR L17 OR L18)
L30 L31 L*** L32	DEL	0 SEA SPE=ON ABB=ON PLU=ON L1 NOT L29 54 SEA SPE=ON ABB=ON PLU=ON L27 NOT L29 0 S L31 AND L28] 38 SEA SPE=ON ABB=ON PLU=ON L31 AND L28
	FILE	STNGUIDE' ENTERED AT 09:24:07 ON 24 NOV 2009
		WPIX' ENTERED AT 09:24:17 ON 24 NOV 2009 D QUE L9
L33		50 SEA SSS SAM L7 D TRI 1-3
		SAVE TEMP L34 JAI734WPIS/A
L35 L36		235 SEA SPE=ON ABB=ON PLU=ON L34/DCR 159 SEA SPE=ON ABB=ON PLU=ON L35 AND (A61K? OR A61P? OR A610?)/IPC
L37		15 SEA SUB=L34 SSS SAM L12 D QUE STAT
L38		116 SEA SUB=L34 SSS FUL L12 SAVE TEMP L38 JAI734WPISR/A
L39 L40		18 SEA SPE=ON ABB=ON PLU=ON L38/DCR 1 SEA SPE=ON ABB=ON PLU=ON L39 AND (L15 OR L16 OR L17 OR L18)
L41 L42 L43		O SEA SPE=ON ABB=ON PLU=ON L2 NOT L40 17 SEA SPE=ON ABB=ON PLU=ON L39 NOT L40 16 SEA SPE=ON ABB=ON PLU=ON L42 AND L28 D TRI 1-16

FILE 'REGISTRY' ENTERED AT 09:29:39 ON 24 NOV 2009

FILE 'STNGUIDE' ENTERED AT 09:29:46 ON 24 NOV 2009 D SAVED

FILE 'REGISTRY' ENTERED AT 09:30:09 ON 24 NOV 2009

L44 2 SEA SPE=ON ABB=ON PLU=ON L9 AND (MEDLINE OR BIOSIS OR EMBASE OR BIOTECHNO OR CABA OR AGRICOLA OR DRUGU OR VETU OR CROPU)/LC

FILE 'MEDLINE, BIOSIS, EMBASE, BIOTECHNO, CABA, AGRICOLA, DRUGU, VETU, CROPU! ENTERED AT 09:31:00 ON 24 NOV 2009

FILE 'MEDLINE, BIOSIS, EMBASE, BIOTECHNO, CABA, AGRICOLA, DRUGU, VETU'

ENTERED AT 09:31:14 ON 24 NOV 2009

1.45 6 SEA SPE=ON ABB=ON PLU=ON L44

L46 0 SEA SPE=ON ABB=ON PLU=ON L45 AND (L15 OR L16 OR L17 OR L18)

6 SEA SPE=ON ABB=ON PLU=ON L45 NOT L46 L47

L48 6 SEA SPE=ON ABB=ON PLU=ON L47 AND L28

FILE 'STNGUIDE' ENTERED AT 09:32:39 ON 24 NOV 2009

FILE 'MEDLINE, BIOSIS, EMBASE, CABA, CEABA-VTB, PASCAL, JAPIO, LIFESCI, BIOENG, BIOTECHNO, BIOTECHDS, DRUGU, DRUGB, VETU, VETB, AGRICOLA, CROPU, CROPB, FSTA, FROSTI, SCISEARCH, CONFSCI, DISSABS, RDISCLOSURE' ENTERED AT 09:33:42 ON 24 NOV 2009

L49 159573 SEA SPE=ON ABB=ON PLU=ON ?PYRIMIDIN?/IT,TI,CC,CT,ST,STP L50

143 SEA SPE=ON ABB=ON PLU=ON L49 AND (L15 OR L16 OR L17 OR L18)

1.51 0 SEA SPE=ON ABB=ON PLU=ON L50 AND L19

FILE 'STNGUIDE' ENTERED AT 09:35:20 ON 24 NOV 2009

D QUE STAT L9

D OUE STAT L14

D QUE NOS L32

D OUE STAT L34

D OUE STAT L38

D QUE NOS L43

D OUE NOS L48

FILE 'HCAPLUS, WPIX, BIOSIS' ENTERED AT 09:37:45 ON 24 NOV 2009 L52 50 DUP REM L32 L43 L48 (10 DUPLICATES REMOVED)

ANSWERS '1-38' FROM FILE HCAPLUS ANSWERS '39-44' FROM FILE WPIX

ANSWERS '45-50' FROM FILE BIOSIS

SAVE TEMP 1.52 JAT734MAIN/A

FILE 'STNGUIDE' ENTERED AT 09:37:59 ON 24 NOV 2009

FILE 'HCAPLUS, WPIX, BIOSIS' ENTERED AT 09:38:39 ON 24 NOV 2009 D IBIB ED ABS HITIND HITSTR 1-20

FILE 'STNGUIDE' ENTERED AT 09:40:22 ON 24 NOV 2009

FILE 'HCAPLUS, WPIX, BIOSIS' ENTERED AT 09:43:43 ON 24 NOV 2009 D IBIB ED ABS HITIND HITSTR 21-38

FILE 'STNGUIDE' ENTERED AT 09:44:23 ON 24 NOV 2009

FILE 'HCAPLUS, WPIX, BIOSIS' ENTERED AT 09:45:18 ON 24 NOV 2009
D IALL ABEO TECH ABEX FRAGHITSTR 39-44

FILE 'STNGUIDE' ENTERED AT 09:45:24 ON 24 NOV 2009

FILE 'HCAPLUS, WPIX, BIOSIS' ENTERED AT 09:45:52 ON 24 NOV 2009 D IBIB ED AB IND 45-50

FILE 'STNGUIDE' ENTERED AT 09:45:55 ON 24 NOV 2009

D QUE NOS L29

D OUE NOS L40

D OUE NOS L46

D OUE NOS L51

FILE 'HCAPLUS, WPIX' ENTERED AT 09:47:09 ON 24 NOV 2009

1 DUP REM L29 L40 L46 L51 (1 DUPLICATE REMOVED)

ANSWER '1' FROM FILE HCAPLUS

SAVE TEMP L53 JAI734INV/A

FILE 'STNGUIDE' ENTERED AT 09:47:21 ON 24 NOV 2009

FILE 'HCAPLUS' ENTERED AT 09:47:34 ON 24 NOV 2009

FILE 'STNGUIDE' ENTERED AT 09:47:52 ON 24 NOV 2009

FILE 'STNGUIDE' ENTERED AT 09:48:12 ON 24 NOV 2009

FILE HOME

L53

FILE STNGUIDE
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Nov 20, 2009 (20091120/UP).

FILE ZCAPLUS

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FILE COVERS 1907 - 24 Nov 2009 VOL 151 ISS 22
FILE LAST UPDATED: 22 Nov 2009 (20091122/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

ZCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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FILE HCAPLUS

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FILE WPIX

FILE LAST UPDATED: 20 NOV 2009 <20091120/UP>
MOST RECENT UPDATE: 200975 <200975/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE
>>> Now containing more than 1.4 million chemical structures in DCR <<<

>>> IPC, ECLA, US National Classifications and Japanese F-Terms and FI-Terms have been updated with reclassifications to end of September 2009.
No update date (UP) has been created for the reclassified documents, but they can be identified by specific update codes (see HELP CLA for details) <<</p>

FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE, PLEASE VISIT:

http://www.stn-international.com/stn\_guide.html

FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE <a href="http://scientific.thomsonreuters.com/support/patents/coverage/latestupdate">http://scientific.thomsonreuters.com/support/patents/coverage/latestupdate</a>

EXPLORE DERWENT WORLD PATENTS INDEX IN STN ANAVIST, VERSION 2.0: http://www.stn-international.com/DWPIAnaVist2\_0608.html

>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> Japanese FI-TERM thesaurus in field /FCL added --> see NEWS <<<

### FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 NOV 2009 HIGHEST RN 1193309-59-9 DICTIONARY FILE UPDATES: 22 NOV 2009 HIGHEST RN 1193309-59-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

### http://www.cas.org/support/stngen/stndoc/properties.html

#### FILE LREGISTRY

LREGISTRY IS A STATIC LEARNING FILE

CAS INFORMATION USE POLICIES, ENTER HELP USAGETERMS FOR DETAILS.

#### FILE MEDITNE

FILE LAST UPDATED: 18 Nov 2009 (20091118/UP). FILE COVERS 1949 TO DATE.

MEDLINE and LMEDLINE have been updated with the 2009 Medical Subject Headings (MeSH) vocabulary and tree numbers from the U.S. National Libra of Medicine (NLM). Additional information is available at

http://www.nlm.nih.gov/pubs/techbull/nd08/nd08 medline data changes 2009.

On February 21, 2009, MEDLINE was reloaded. See HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

See HELP RANGE before carrying out any RANGE search.

#### FILE BIOSIS

FILE COVERS 1926 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT

FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 18 November 2009 (20091118/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

FILE EMBASE

FILE COVERS 1974 TO 23 Nov 2009 (20091123/ED)

EMBASE was reloaded on March 30, 2008.

EMBASE is now updated daily. SDI frequency remains weekly (default) and biweekly.

This file contains CAS Registry Numbers for easy and accurate substance identification.

Beginning January 2008, Elsevier will no longer provide EMTREE codes as part of the EMTREE thesaurus in EMBASE. Please update your current-awareness alerts (SDIs) if they contain EMTREE codes.

For further assistance, please contact your local helpdesk.

FILE BIOTECHNO

FILE LAST UPDATED: 7 JAN 2004 <20040107/UP>

FILE COVERS 1980 TO 2003.

THIS FILE IS A STATIC FILE WITH NO UPDATES

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FILE CABA

FILE COVERS 1973 TO 5 Nov 2009 (20091105/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

The CABA file was reloaded 7 December 2003. Enter HELP RLOAD for details.

FILE AGRICOLA

FILE COVERS 1970 TO 16 Nov 2009 (20091116/ED)

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FILE DRUGU

FILE LAST UPDATED: 18 NOV 2009 <20091118/UP>

>>> DERWENT DRUG FILE (SUBSCRIBER) <<<

>>> FILE COVERS 1983 TO DATE <><

>>> THESAURUS AVAILABLE IN /CT <<<

FILE VETU

FILE LAST UPDATED: 2 JAN 2002 <20020102/UP>

FILE COVERS 1983-2001

FILE CROPU

FILE LAST UPDATED: 5 JAN 2004 <20040105/UP>

FILE COVERS 1985 TO 2003

<>< CROPU IS A STATIC FILE WITH NO UPDATES >>>

FILE CEABA-VTB

FILE LAST UPDATED: 23 NOV 2009 <20091123/UP>

FILE COVERS 1966 TO DATE

>>> DECHEMA, the producer of CEABA-VTB is using a new classification scheme.

The new classification schemes are available as a PDF file and may be downloaded free-of-charge from:

http://www.stn-international.com/cc-de.html

http://www.stn-international.com/cc-en.html<<<

FILE PASCAL

FILE LAST UPDATED: 23 NOV 2009 <20091123/UP>

FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE IN THE BASIC INDEX (/BI) FIELD <><

FILE JAPIO

FILE LAST UPDATED: 9 NOV 2009 <20091109/UP>
MOST RECENT PUBLICATION DATE: 30 JUL 2009 <20090730/PD>

>>> GRAPHIC IMAGES AVAILABLE <<<

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION (SLART) IS AVAILABLE IN THE BASIC INDEX (/BI) FIELD <<<

FILE LIFESCI

FILE COVERS 1978 TO 3 Nov 2009 (20091103/ED)

FILE BIOENG

FILE LAST UPDATED: 12 NOV 2009 <20091112/UP>

FILE COVERS 1982 TO DATE

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN THE BASIC INDEX <<<

FILE BIOTECHDS

FILE LAST UPDATED: 18 NOV 2009 <20091118/UP>

FILE COVERS 1982 TO DATE

>>> USE OF THIS FILE IS LIMITED TO BIOTECH SUBSCRIBERS <<<

FILE DRUGB

>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

FILE VETB

FILE LAST UPDATED: 25 SEP 94 <940925/UP>

FILE COVERS 1968-1982

FILE CROPB

FILE LAST LOADED: 11 NOV 94 <941111/UP>

<>< CROPB IS A STATIC FILE WITH NO UPDATES >>>

FILE FSTA

FILE LAST UPDATED: 23 NOV 2009 <20091123/UP>

FILE COVERS 1969 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN THE BASIC INDEX (/BI) FIELD <<<

FILE FROSTI

FILE LAST UPDATED: 23 NOV 2009 <20091123/UP>

FILE COVERS 1972 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE IN THE BASIC INDEX (/BI) FIELD <><

FILE SCISEARCH

FILE COVERS 1974 TO 20 Nov 2009 (20091120/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

FILE CONFSCI

FILE COVERS 1973 TO 30 Jun 2009 (20090630/ED)

CSA has resumed updates, see NEWS FILE

FILE DISSABS

FILE COVERS 1861 TO 22 NOV 2009 (20091122/ED)

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FILE RDISCLOSURE

FILE LAST UPDATED: 13 NOV 2009 <20091113/UP>

FILE COVERS 1960 TO DATE

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>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

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